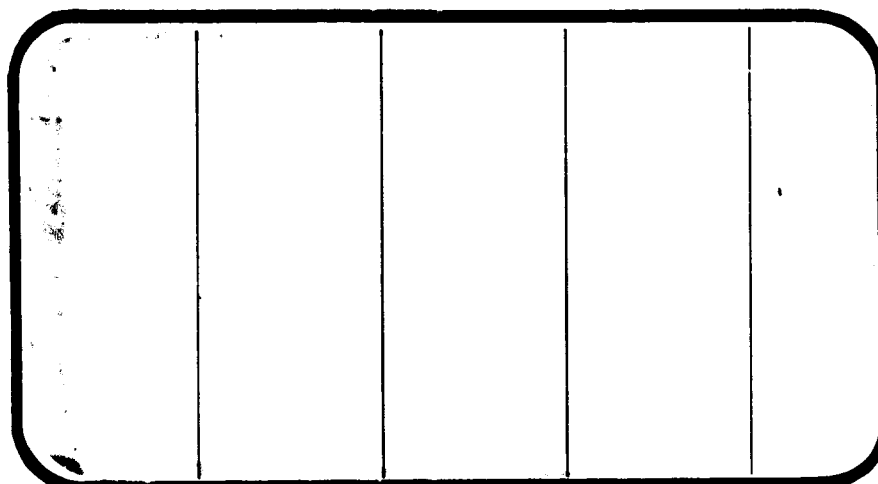


NASA

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

NASA CR-

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(NASA-CR-144583) RESULTS OF AN AERODYNAMIC
INVESTIGATION OF A SPACE SHUTTLE ORBITER/747
CARRIER VEHICLE CONFIGURATION TO ESTABLISH A
FREE-STREAM DATA BASE FOR ALT SEPARATION
INVESTIGATIONS, UTILIZING A C.0125-SCALE

N76-16150

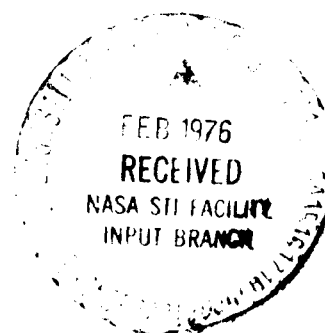
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SPACE SHUTTLE

AEROTHERMODYNAMIC DATA REPORT



JOHNSON SPACE CENTER

HOUSTON, TEXAS

DATA Management services

SPACE DIVISION



**CHRYSLER
CORPORATION**

December, 1975

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RESULTS OF AN AERODYNAMIC INVESTIGATION OF A
SPACE SHUTTLE ORBITER/747 CARRIER VEHICLE
CONFIGURATION TO ESTABLISH A FREE-STREAM DATA
BASE FOR ALT SEPARATION INVESTIGATIONS, UTILIZING
A 0.0125-SCALE MODEL (48-0/AX1318I-1) IN THE
ARC 14-FOOT WIND TUNNEL (CA23A)

by

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Prepared under NASA Contract Number NAS9-13247

by

Data Management Services
Chrysler Corporation Space Division
New Orleans, La. 70189

for

Engineering Analysis Division
Johnson Space Center
National Aeronautics and Space Administration
Houston, Texas

WIND TUNNEL TEST SPECIFICS:

Test Number: ARC 14 TWT-080
NASA Series Number: CA23A
Model Number: 48-O Orbiter/AX1318I-1 747
Test Dates: March 18 through April 14, 1975

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Chrysler Corporation Space Division assumes no responsibility for the data presented other than display characteristics.

RESULTS OF AN AERODYNAMIC INVESTIGATION OF A SPACE SHUTTLE
ORBITER/747 CARRIER VEHICLE CONFIGURATION TO ESTABLISH A
FREE-STREAM DATA BASE FOR ALT SEPARATION INVESTIGATIONS,
UTILIZING A 0.0125-SCALE MODEL (48-O/AX1318I-1) IN
THE ARC 14-FOOT WIND TUNNEL (CA23A)

by

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ABSTRACT

This report presents results of tests conducted on a 0.0125-scale model of the 140C (Modified) Space Shuttle Orbiter and a 0.0125-scale model of the 747 CAM configuration in the NASA-ARC 14-foot Wind Tunnel. Force and moment data were obtained for each vehicle separately at a Mach number of 0.6, and for the mated orbiter/747 configuration at Mach numbers of 0.3, 0.5, 0.6, and 0.7.

The enclosed data forms a pre-launch and free air data base for planned separation tests of the carrier ALT configuration. Six component force and moment data are presented for each vehicle as well as total mated carrier vehicle data for mated runs. Orbiter angles of attack from 0 degrees to +12 degrees and 747/Carrier angles of attack from -3 degrees to +7 degrees were investigated at angles of sideslip of 0 degrees and -5 degrees. Model variables include orbiter elevon and rudder deflections, orbiter tail cone-on and off, various orbiter/747 attach structure configurations, 747 stabilizer and rudder deflections, and 747 CAM modification components-on and off. The tests, designated CA23A, were conducted from March 18 through April 14, 1975.

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COEFFICIENT SCHEDULE:

- (A) CN, CA, CLM, L/D, CL, CD, CY, CYN, CBL versus ALPHA
- (B) CPC, CPB1, CPB2, CPB3 versus ALPHA
- (C) CN, CA, CLM, L/D, CL, CD, CY, CYN, CBL versus ALPHAC
- (D) CPC, CP15, CPSB1, CPSB2, CP14, CP16, CP17 versus ALPHAC
- (E) CN, CA, CLM, CY, CYN, CBL, CL, CD versus ALPHAC
- (F) CPC, CP15, CPSB1, CP14, CP16, CP17 versus ALPHAC

NOMENCLATURE

<u>SYMBOL</u>	<u>PLOT SYMBOL</u>	<u>DEFINITION</u>
a		speed of sound; m/sec, ft/sec
C_p	CP	pressure coefficient; $(P_t - P_\infty)/q$
M	MACH	Mach number; V/a
p		pressure; N/m^2 , psf
q	Q(NSM) Q(PSF)	dynamic pressure; $1/2 \rho V^2$, N/m^2 , psf
RN/L	RN/L	unit Reynolds number; per m, per ft.
V		Velocity; m/sec, ft/sec
α	ALPHAC	747 angle of attack, degrees
α_o	ALPHA	Orbiter angle of attack, degrees
β	BETAC	747 angle of sideslip, degrees
β_o	BETAO BETA	Orbiter angle of sideslip, degrees
ψ	PSI	angle of yaw, degrees
ϕ	PHI	angle of roll, degrees
i_o	I-ORB IAORB	Orbiter incidence relative to 747 FRL, degrees
ρ		mass density; kg/m^3 , slugs/ft ³
<u>Reference & C. G. Derinitions</u>		
A_b		base area; m^2 , ft ²
b	BREF	wing span or reference span; m, ft
c.g.		center of gravity
l_{REF}	LREF	reference length or wing mean
\bar{c}		aerodynamic chord; m, ft

NOMENCLATURE - (Continued)

<u>SYMBOL</u>	<u>PLOT SYMBOL</u>	<u>DEFINITION</u>
S	SREF	wing area or reference area; m^2 , ft^2
MRC	MRP	moment reference point
	XMRP	moment reference point on X axis
	YMRP	moment reference point on Y axis
	ZMRP	moment reference point on Z axis
<u>SUBSCRIPTS</u>		
b		base
l		local
s		static conditions
t		total conditions
∞		free stream
O		orbiter
<u>Stability-axis System</u>		
C_L	CL	lift coefficient; $\frac{\text{lift}}{qS}$
C_D	CD	drag coefficient; $\frac{\text{drag}}{qS}$
C_Y	CY	side-force coefficient; $\frac{\text{side force}}{qS}$
C_{D_b}	CDB	base-drag coefficient; $\frac{\text{base drag}}{qS}$
C_{D_f}	CDF	forebody drag coefficient; $C_D - C_{D_b}$
C_m	CLM	pitching-moment coefficient; $\frac{\text{pitching moment}}{qS l_{REF}}$
C_n	CLN	yawing-moment coefficient; $\frac{\text{yawing moment}}{qS b}$

NOMENCLATURE - (Continued)

<u>SYMBOL</u>	<u>PLOT SYMBOL</u>	<u>DEFINITION</u>
C_l	CSL	rolling-moment coefficient; $\frac{\text{rolling moment}}{qSb}$
L/D	L/D	lift-to-drag ratio; C_L/C_D
L/D_f	L/DF	lift-to-forebody drag ratio; C_L/C_{D_f}
<u>Body-Axis System</u>		
C_N	CN	normal-force coefficient; $\frac{\text{normal force}}{qS}$
C_A	CA	axial-force coefficient; $\frac{\text{axial force}}{qS}$
C_Y	CY	side-force coefficient; $\frac{\text{side force}}{qS}$
C_{A_b}	CAB	base-force coefficient; $\frac{\text{base force}}{qS}$ $-A_b(P_b - p_\infty)/qS$
C_{A_f}	CAF	forebody axial force coefficient; $C_A - C_{A_b}$
C_m	CLM	pitching-moment coefficient; $\frac{\text{pitching moment}}{qS \ell_{REF}}$
C_n	CYN	yawing-moment coefficient; $\frac{\text{yawing moment}}{qSb}$
C_l	CBL	rolling-moment coefficient; $\frac{\text{rolling moment}}{qSb}$

NOMENCLATURE (Continued)

<u>Symbol</u>	<u>Plot Symbol</u>	<u>Definition</u>
BSTA		Longitudinal carrier station, in.
BWL		Vertical carrier station, in.
BL		Lateral carrier station, in.
δ_a	AIL-O	Orbiter aileron deflection angle, $\delta_a = \frac{\delta_{eL} - \delta_{eR}}{2}$, degrees
δ_e	ELV-O	Orbiter elevon surface deflection angle, positive deflection trailing edge down, degrees
δ_r	RUD-C	747 rudder surface deflection angle, positive deflection trailing edge to the left, degrees
δ_s	STAB-C	747 stabilizer surface deflection angle, positive deflection trailing edge down, degrees

ORBITER

C_{PB1}	CPB1	Orbiter (tail cone off) base pressure coefficient, 1
C_{PB2}	CPB2	Orbiter (tail cone off) base pressure coefficient, 2
C_{PB3}	CPB3	Orbiter (tail cone off) base pressure coefficient, 3
C_{PCO}	CPC	Orbiter balance cavity pressure coefficient
δ_r	RUD-O	Orbiter rudder surface deflection angle, positive deflection trailing edge to the left, degrees

NOMENCLATURE (Concluded)

ISOLATED CARRIER

<u>Symbol</u>	<u>Plot Symbol</u>	<u>Definition</u>
$C_{P_{CC}}$	CPC	747 right half forward sting cavity pressure coefficient
$C_{P_{SB1}}$	CPSB1	747 right half center sting cavity pressure coefficient
$C_{P_{SB2}}$	CPSB2	747 right half aft sting cavity pressure coefficient
$C_{P_{14}}$	CP14	747 top aft sting cavity exit pressure coefficient
$C_{P_{15}}$	CP15	747 left half forward sting cavity pressure coefficient
$C_{P_{16}}$	CP16	747 left half center sting cavity pressure coefficient
$C_{P_{17}}$	CP17	747 left half aft sting cavity exit pressure coefficient

CARRIER BALANCE WITH ORBITER MATED TO CARRIER

$C_{P_{CC}}$	CPC	747 lower forward sting cavity pressure coefficient
$C_{P_{SB1}}$	CPSB1	747 lower aft sting cavity exit pressure coefficient
$C_{P_{14}}$	CP14	Orbiter base pressure coefficient
$C_{P_{15}}$	CP15	747 aft top sting cavity pressure coefficient
$C_{P_{16}}$	CP16	747 middle top sting cavity pressure coefficient
$C_{P_{17}}$	CP17	747 forward top sting cavity pressure coefficient

REMARKS

The model component surface deflection angles called out in the run summary are nominal values. The actual angles tested are outlined below.

	<u>Nominal</u>	<u>Actual</u>
Orbiter Elevon:	0°	0°
	+5°	+5.0°
	+10°	+9.8°
Orbiter Aileron:	-10° (-5°/+15°)	-4.9°/+14.9°
Orbiter Rudder:	0°	0°
	+10°	+9.7°
747 Stabilizer:	-1°	-0.75°
	+1°	1.22°
	+3°	3.27°
	+5°	5.32°
747 Rudder:	+10°	+10.7°

For the mated configuration the orbiter force balance wire bundle and orbiter pressure tubing were routed from the orbiter to the carrier externally along the left hand aft attach structure, see figures 2h and 2i. The effect of this bundle was not evaluated and remains part of the mated configuration data.

Comparisons of the orbiter alone and clean 747 (i.e. CAM kit elements removed) with previous test data on other models showed excellent agreement, validating the aft sting mount as an acceptable support configuration for the 747 and both vehicles as good representations of their respective configurations.

CONFIGURATIONS INVESTIGATED

The orbiter model, 48-0, was an 0.0125-scale representation of the Space Shuttle Orbiter VC70-000002 lines, illustrated in figure 2d. The Orbiter model was tested both with and without a tail cone fairing which covered the MPS nozzles and the OMS pod base as shown in figure 2f. Orbiter alone runs were made with a base sting mount, the sting replacing the upper MPS nozzle, figure 2j. The following orbiter configurations were tested:

- $O_1 = B_{64} C_{14} F_{14} E_{44} M_{18} N_{94} N_{92} R_{18} V_{23} W_{116}$
 $O_3 = B_{64} C_{14} F_{14} E_{44} M_{18} R_{18} V_{23} W_{116} TC_4$
 $O_4 = B_{64} C_{14} F_{14} E_{44} M_{18} N_{105} N_{92} R_{18} V_{23} W_{116}$ (upper MPS nozzle off)
 $O_5 = B_{64} C_{14} F_{14} E_{61} M_{18} N_{94} N_{92} R_{18} V_{23} W_{116}$ (elevon gaps sealed)

where:

<u>Component</u>	<u>Description</u>
B_{64}	Orbiter fuselage per Rockwell lines VC70-000002, Model drawing SS-A01377
C_{14}	Orbiter canopy per Rockwell lines VC70-000002, Model drawing SS-A01377
E_{44}	Orbiter full span, unswept hingeline, 6-inch gapped elevons per Rockwell lines VC70-000002, Model drawing SS-A01377
E_{61}	Same as E_{44} with elevon gaps sealed
F_{14}	Orbiter body flap per Rockwell lines VC70-000002, Model drawing SS-A01377
M_{18}	Orbiter OMS/RCS pods per Rockwell lines VC70-000002, Model drawing SS-A01377
N_{94}	Orbiter main engine nozzles per Rockwell lines VC70-000002, Model drawing SS-A01377
N_{105}	Same as N_{94} with upper nozzle removed
N_{92}	Orbiter OMS engine nozzles per Rockwell lines VC70-000002, Model drawing SS-A01377

CONFIGURATIONS INVESTIGATED - (Continued)

<u>Component</u>	<u>Description</u>
R ₁₈	Orbiter rudder per Rockwell lines VC70-000002, Model drawing SS-A01377
V ₂₃	Orbiter vertical tail per Rockwell lines VC70-000002, Model drawing SS-A01377
W ₁₁₆	Orbiter double delta wing per Rockwell lines VC70-000002, Model drawing SS-A01377
TC ₄	Orbiter tail cone fairing which covers the MPS nozzles and the OMS nozzles and base

Orbiter elevon, aileron and rudder deflection angles were varied. Configuration 04 was the orbiter alone configuration, and 01, 03, and 05 were orbiter mated to carrier configurations.

Orbiter-to-carrier attach structure was simulated in several configurations. These included faired and unfaired strut members as identified below and illustrated in figures 2h and 2i.

$AT_1 = AT_{xx}$ AT_{99} where $AT_{xx} = AT_{96}, AT_{97}$ or AT_{98}

$AT_2 = AT_{93}, AT_{95}$

$AT_3 = AT_{93}, AT_{100}$

Where:

<u>Component</u>	
AT ₉₃	Fwd attach structure, unfaired, $i_o = 6^\circ$
AT ₉₅	Aft attach structure, unfaired
AT ₉₆	Fwd attach structure, faired, $i_o = 4^\circ$
AT ₉₇	Fwd attach structure, faired, $i_o = 6^\circ$
AT ₉₈	Fwd attach structure, faired, $i_o = 8^\circ$
AT ₉₉	Aft attach structure, faired
AT ₁₀₀	Same as AT ₉₉ except sway brace is unfaired

CONFIGURATIONS INVESTIGATED - (Concluded)

The carrier model, AX1318I-1, was an 0.0125- scale representation of the Boeing 747-100 aircraft with surface contours built to represent the 747 under loads it would experience with a 600,000 pound gross weight flying at Mach 0.86 at an altitude of 5,000 feet. The CAM (Carrier Aircraft Modification) kit tested on the model included 200 square foot tip fins on the horizontal tail panels and simulated orbiter-to-carrier attach structure. In-flight speed brakes were deployed for most runs in the configuration shown in figure 2c. Stabilizer and rudder deflections were varied during the test. The carrier was tested both isolated and mated to the orbiter. Configurations investigated were:

- 747/1 = B27.8 W44.1 V9.1 H15.6 M25 M26 N57 N58 S1-12 T14 AT()
- 747/2 = Same as 747/1 except no AT()
- 747/3 = B27.8 W44.1 V9.1 H15 M25 M26 N57 N58 T14
- 747/4 = Same as 747/1 except no H15.6

Where:

<u>Component</u>	<u>Description</u>
B27.8	Fuselage
W44.1	Wing
V9.1	Vertical Tail
H15	Horizontal tail, basic
H15.6	Horizontal tail, with 200 ft. ² tip fins
M25	Inboard nacelle struts
M26	Outboard nacelle struts
N57	Inboard nacelles
N58	Outboard nacelles
S1-12	Spoiler Panels
T14	Flap track fairings

INSTRUMENTATION

Force instrumentation consisted of a six-component internal force balance mounted in each model. The orbiter balance measured orbiter forces in both mated and isolated configurations. The carrier balance measured carrier data for the isolated configuration, and measured total carrier plus orbiter data in the mated configuration.

Pressure instrumentation for the orbiter consisted of 3 base pressure orifices (tailcone off only) and 1 balance cavity orifice. Pressure instrumentation for the carrier consisted of 1 balance cavity orifice and 4 or 10 sting/boattail cavity pressure orifices as shown below. Also, see figures 2g and 2k. All pressures were measured by a Scanivalve, Inc. 24 port scanivalve module with a ± 12.5 psid pressure transducer.

	<u>Pressure</u>	<u>Data Location</u>
Orbiter pressures: (alone and mated)	PC ₀	P ₁
	PB ₁	P ₂
	PB ₂	P ₃
	PB ₃	P ₄
Carrier pressures: (Carrier alone)	P ₁₁	P ₁
	P ₁₂	P ₂
	P ₁₃	P ₃
	P ₁₄	P ₄
	P ₁₅	P ₅
	P ₁₆	P ₆
	P ₁₇	P ₇
	P ₁₈	P ₈

INSTRUMENTATION - (Concluded)

	<u>Pressure</u>	<u>Data Location</u>
	P ₁₉	P ₉
	P ₂₀	P ₁₀
Carrier Pressures:	P ₁₃	P ₅
(Mated)	P ₁₂	P ₆
	P ₁₁	P ₇
	P _{cc}	P ₈
	P ₂₁	P ₉

TEST FACILITY DESCRIPTION

The Ames 14-foot Transonic Wind Tunnel was created by extensive modification of the former Ames 16-foot High Speed Wind Tunnel. It has an adjustable, flexible-wall nozzle and the test section is slotted on all four sides to permit transonic testing. The air circuit is closed except for the air exchanger, in a low-speed section of the circuit, which is controlled to maintain the air temperature within suitable limits.

The air is driven by a three-stage, axial-flow compressor powered by three electric motors mounted in tandem outside the wind tunnel. The drive system is rated 110,000 horsepower continuously or 132,000 horsepower for one hour. The speed of the motors is continuously variable over the operating range.

Performance:

Mach number	0.6 to 1.2, continuously variable
Pressure, stagnation, atm	1.0
Reynolds number, per ft.	2.8×10^6 to 4.2×10^6
Temperature, stagnation	Controllable over limited range by throttling the air exchanger. Generally about 640°R to avoid condensation of moisture in the test section.

Dimensions:

Test section height, ft.	13.50
Test section width, ft.	13.71 at upstream end 13.92 at downstream end
Test section length, ft.	33.75

DATA REDUCTION

Force and moment data were reduced in both body and stability axes using standard data reduction procedures. Net carrier data for the mated configuration was obtained by subtracting the orbiter data from the corresponding total vehicle data as measured by the carrier balance. Coefficient data for each vehicle were computed based on their respective reference dimensions.

<u>Symbol</u>	<u>Carrier</u>		<u>Orbiter</u>		<u>Description</u>
	<u>Model Scale</u>	<u>Full Scale</u>	<u>Model Scale</u>	<u>Full Scale</u>	
S	0.859	5500	0.420	2690	reference area, ft. ²
b	29.351	2348.04	11.709	936.68	reference span, in.
\bar{c}	4.097	327.78	5.935	474.81	reference MAC, in
MRC					moment reference center in.
X _c or X _o	16.749	1339.90	13.862	1109	
Y _c or Y _o	0.0	0.0	0.0	0.0	
Z _c or Z _o	2.385	190.75	4.687	375	

No base or cavity pressure corrections were applied to the data.

Wind tunnel data were interpolated versus angle of attack, angle of sideslip and orbiter incidence angle. Both basic and interpolated data are presented in this report.

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747-MD-658, " Support Structure Instl. -Aft"

AX 1318I-1, "747 Model Drawings 0.0125 Scale."

65C13609, "Model Assy AX1318I-1"

65-89588, "Body Lines AX1318I-1"

TABLE I

[illegible]

TABLE II

[illegible]

TABLE II - (Cont'd)

TEST: CA23A		DATA SET/RUN NUMBER COLLATION SUMMARY										DATE: POST TEST																																																																																																																																																																																																																																																																																																																																																																																																							
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				α	β	δ	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r	δ_e	δ_r </

TABLE II (Cont'd)

[illegible]

TABLE II-(Cont'd)

TEST: CA23A		DATA SET/RUN NUMBER COLLATION SUMMARY										DATE: POST TEST	
DATA SET IDENTIFIER	Configuration	CARRIER				ORBITTER				MACH NUMBERS			
		α	β	δ_r	δ_e	δ_r	δ_e	ΔX	ΔY	ΔZ	$\Delta \phi$		
REG-40	747/1 01 AT1	0	-1	0	10	0	0			8			40
41			5		10		0						41
42					5		-10						42
43					0		0						43
44			-1										44
45			-1							4			45
46			5										46
47					5								47
48					10								48
49			-1	0									49
50			-1		10								50
51			5		10								51
52					5		-10						52
53	747/1 -S1-S12)01 AT1						0			6			53
54										8			54
55	747/1 -S1-S12)05 AT1									8			55
56	747/1 (-S1-S12)03 AT1		-1							4			56
57	747/1 03 AT1		-1							4			57
1	7	19	25	31	37	43	49	55	61	67	75	76	
SCHEDULES		COEFFICIENTS											
α & β		$\Delta \alpha_c = -3, -2, -1, 0, 1, 2, 3, 4, 5, 6, 7$ degrees											
		IDVAR 1) IDVAR 2) IDVAR 3)											

TABLE II - (Continued)

[illegible]

TABLE II - (Concluded)

The fourth character in the data set identifier identifies the coefficient schedule as follows:

Data set Lth Character Identifier	Model/Balance	Data set 1st Character Identifier	Coefficients
A	Isolated orbiter, α as IDVAR(2)	R	BETA, CN, CA, CLM, CY, CYN, CBL, CL, CD, L/D
		A	BETA, CPC, CPB1, CPB2, CPB3
B	Isolated carrier, α_c as IDVAR(2)	R	BETA, CN, CA, CLM, CY, CYN, CBL, CL, CD, L/D
		A	BETA, CPC, CPSB1, CPSB2, CP14, CP15, CP16, CP17
C	Orbiter balance with orbiter mated to carrier, α as IDVAR(2)	R	α_c , CN, CA, CLM, CY, CYN, CBL, CL, CD, L/D
		A	α_c , BETA, CPC, CPB1, CPB2, CPB3
D	Carrier balance with orbiter mated to carrier, α_c as IDVAR(2)	R	α , CN, CA, CLM, CY, CYN, CBL, CL, CD, L/D
		A	α , BETA, CPC, CPSB1, CPSB2, CP14, CP15, CP16, CP17
F	(Carrier balance - orbiter balance) with orbiter mated to carrier, α_c as IDVAR(2)	Y	CD, CY, CL, CSL, CLM, CLN, CN, CA, CBL, CYN

TABLE III (MODEL DIMENSIONAL DATA)

a. Orbiter Model

MODEL COMPONENT : BODY - CML - B₆₁GENERAL DESCRIPTION : The body is an elongated structure containing the Crew Module and Cargo Bay. Same as IML plus 1" TPS.MODEL SCALE: 0.0125DRAWING NUMBER: VC70-000002, SS-A01377

DIMENSIONS :	FULL SCALE	MODEL SCALE
Length ($X_0 = 235$ to 1519), In.	<u>1284.0</u>	<u>16.050</u>
Max Width ($X_0 = 1516.8$), In.	<u>262.718</u>	<u>3.284</u>
Max Depth ($X_0 = 1463.316$), In.	<u>248.575</u>	<u>3.107</u>
Fineness Ratio	<u>5.1365</u>	<u>5.1365</u>
Area - Ft^2	<u> </u>	<u> </u>
Max. Cross-Sectional	<u>340.82</u>	<u>0.053</u>
Planform	<u> </u>	<u> </u>
Wetted	<u> </u>	<u> </u>
Base	<u> </u>	<u> </u>

TABLE III (Cont'd)

a. Orbiter Model

MODEL COMPONENT : CANOPY (OUTER MOLD LINE) - C₁₁

GENERAL DESCRIPTION : The canopy is that part of the forward fuselage which covers the Crew Module. One inch TPS thickness on the canopy.

Configuration 140C.

MODEL SCALE: 0.0125

DRAWING NUMBER : VC70-000002, SS-A01377

DIMENSIONS :	FULL SCALE	MODEL SCALE
Length ($X_0 = 435.196 - 670.0$), In.	<u>234.80</u>	<u>2.935</u>
Max Width ($X_0 = 594.0$), In.	<u>195.58</u>	<u>2.445</u>
Max Depth	<u> </u>	<u> </u>
Fineness Ratio	<u> </u>	<u> </u>
Area	<u> </u>	<u> </u>
Max. Cross-Sectional	<u> </u>	<u> </u>
Planform	<u> </u>	<u> </u>
Wetted	<u> </u>	<u> </u>
Base	<u> </u>	<u> </u>

WINDSHIELD PLANES:

$$\begin{aligned}
 .7012 X_0 - .2552 Y_0 - .6656 Z_0 - 6.1789 &= 0 \\
 .5710 X_0 - .5641 Y_0 - .5965 Z_0 + 32.7354 &= 0 \\
 .2636 X_0 - .7564 Y_0 - .5965 Z_0 + 189.1099 &= 0
 \end{aligned}$$

TABLE III (Cont'd)

a. Orbiter Model

MODEL COMPONENT ELEVON - E₂₆

GENERAL DESCRIPTION 6.0 In. P.S. gaps machined into E₂₆ elevon.
Flipper doors, centerbody pieces, and tipscals are not simulated. (Data
are for one side.)

MODEL SCALE: 0.0125

DRAWING NUMBER Not available.

DIMENSIONS	FULL SCALE	MODEL SCALE
Area - Ft ²	<u>210.00</u>	<u>0.033</u>
Span (equivalent), In.	<u>349.2</u>	<u>4.365</u>
Inb'd equivalent chord, In.	<u>118.0</u>	<u>1.475</u>
Outb'd equivalent chord, In.	<u>55.19</u>	<u>0.690</u>
Ratio movable surface chord/ total surface chord	<u> </u>	<u> </u>
At Inb'd equiv. chord	<u>0.2096</u>	<u>0.2096</u>
At Outb'd equiv. chord	<u>0.4004</u>	<u>0.1004</u>
Sweep Back Angles, degrees	<u> </u>	<u> </u>
Leading Edge	<u>0.00</u>	<u>0.00</u>
Trailing Edge	<u>- 10.056</u>	<u>- 10.056</u>
Hingeline	<u>0.00</u>	<u>0.00</u>
(Product of area & c)	<u> </u>	<u> </u>
Area Moment (Normal to hinge line), Ft ³	<u>1587.25</u>	<u>0.003</u>
Mean Aerodynamic Chord, In.	<u>90.7</u>	<u>1.134</u>

TABLE III (Cont'd)

a. Orbiter Model

MODEL COMPONENT : ELEVON - E₆₁

GENERAL DESCRIPTION : 6.0 In. F.S. gaps machined into E₆₁ elevon. The gaps are sealed. Flipper doors, centerbody pieces, and tipscals are not simulated. (Data are for one side.)

MODEL SCALE: 0.0125DRAWING NUMBER : Not available.

DIMENSIONS :	FULL SCALE	MODEL SCALE
Area - Ft ²	<u>210.00</u>	<u>0.033</u>
Span (equivalent), In.	<u>349.2</u>	<u>4.365</u>
Inb'd equivalent chord, in.	<u>118.0</u>	<u>1.475</u>
Outb'd equivalent chord, In.	<u>55.12</u>	<u>0.690</u>
Ratio movable surface chord/ total surface chord	<u> </u>	<u> </u>
At Inb'd equiv. chord	<u>0.2096</u>	<u>0.2096</u>
At Outb'd equiv. chord	<u>0.4004</u>	<u>0.4004</u>
Sweep Back Angles, degrees	<u> </u>	<u> </u>
Leading Edge	<u>0.00</u>	<u>0.00</u>
Trailing Edge	<u>-10.056</u>	<u>-10.056</u>
Hingeline	<u>0.00</u>	<u>0.00</u>
Area Moment (Product of Area & c), Ft ³	<u>1587.25</u>	<u>0.003</u>
Mean Aerodynamic Chord, In.	<u>90.7</u>	<u>1.134</u>

TABLE III (Cont'd)

a. Orbiter Model

MODEL COMPONENT: BODY FLAP - F₁₄

GENERAL DESCRIPTION: The body flap is a secondary movable airfoil
located at the aft end of the body.

MODEL SCALE: 0.0125

DRAWING NUMBER: VC70-000002

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Area - Ft ²	<u>135.75</u>	<u>0.021</u>
Span (equivalent), In.	<u>241.33</u>	<u>3.017</u>
Inb'd equivalent chord, In.	<u>81.0</u>	<u>1.013</u>
Outb'd equivalent chord, In.	<u>81.0</u>	<u>1.013</u>
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	<u>0.0</u>	<u>0.0</u>
At Outb'd equiv. chord	<u>0.0</u>	<u>0.0</u>
Sweep Back Angles, degrees		
Leading Edge	<u>0.0</u>	<u>0.0</u>
Trailing Edge	<u>0.0</u>	<u>0.0</u>
Hingeline	<u>0.0</u>	<u>0.0</u>
Area Moment (product of Area & \bar{x}) - Ft ³	<u>916.31</u>	<u>0.0018</u>
Mean Aerodynamic Chord, In.	<u>81.0</u>	<u>1.013</u>

TABLE III (Cont'd)

a. Orbiter Model

MODEL COMPONENT : OMS PODS (OMS) - M₁₂

GENERAL DESCRIPTION : The OMS pods are nacelles housing the maneuvering engines and are located on the fuselage on either side of the vertical tail. Same as IML plus 1/2" TPS.

MODEL SCALE: 0.0125DRAWING NUMBER: VC70-000002, VL70-843001

DIMENSIONS :

FULL SCALE

MODEL SCALE

Length ($X_0=1311 - 1511$), In.200.002.500Max Width ($X_0 = 304$), In.135.751.697Max Depth ($X_0 = 304$), In.74.50.931

Fineness Ratio

Area - Ft²

Max. Cross-Sectional

58.1690.009

Planform

Wetted

Base

TABLE III (Cont'd)

a. Orbiter Model

MODEL COMPONENT: MP3 NOZZLES - N94

GENERAL DESCRIPTION: The main propulsion nozzles are Laval-bell shaped and are located on the aft planes of the orbiter. These dimensions are external and are not to be scaled for plume tests.

MODEL SCALE: 0.0125DRAWING NUMBER: VC70-000002, VL70-008144; RS009169, RS009107, 13M15000

DIMENSIONS:

	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
MACH NO.		
Length - In.		
Gimbal Point to Exit Plane	<u>157.00</u>	<u>1.963</u>
Throat to Exit Plane	<u> </u>	<u> </u>
Diameter - In.		
Exit	<u>97.914</u>	<u>1.224</u>
Throat	<u> </u>	<u> </u>
Inlet	<u> </u>	<u> </u>
Area - ft ²		
Exit	<u>52.290</u>	<u>0.008</u>
Throat	<u> </u>	<u> </u>
Gimbal Point (Station) In.		
Upper Nozzle		
X ₀	<u>1445.0</u>	<u>18.063</u>
Y ₀	<u>0.0</u>	<u>0.0</u>
Z ₀	<u>443.0</u>	<u>5.538</u>
Lower Nozzles		
X ₀	<u>1468.170</u>	<u>18.352</u>
Y ₀	<u>53.000</u>	<u>0.663</u>
Z ₀	<u>362.440</u>	<u>4.530</u>
Wall Position - Deg.		
Upper Nozzle		
Pitch	<u>16.0</u>	<u>16.0</u>
Yaw	<u>0.0</u>	<u>0.0</u>
Lower Nozzle		
Pitch	<u>10.0</u>	<u>10.0</u>
Yaw	<u>3.5</u>	<u>3.5</u>

TABLE III (Cont'd)

a. Orbiter Model

MODEL COMPONENT: MPD NOZZLES - N₁₀₅GENERAL DESCRIPTION: Same as N₉₄ except the upper nozzle is removed.

MODEL SCALE: 0.0125

DRAWING NUMBER: VC70-000002, VL70-008144; RS009169, RS009107, 13M15000

DIMENSIONS:

FULL SCALE

MODEL SCALE

MACH NO.

Length - In.

Gimbal Point to Exit Plane

Throat to Exit Plane

157.00

1.963

Diameter - In.

Exit

Throat

Inlet

97.914

1.224

Area - ft²

Exit

Throat

52.290

0.008

Gimbal Point (Station) - In.

Upper Nozzle

X

Y

Z

Lower Nozzles

X₀Y₀Z₀

1168.170

18.352

53.00

0.663

362.640

4.283

Null Position - Deg.

Upper Nozzle

Pitch

Yaw

Lower Nozzle

Pitch

Yaw

10.0

10.0

3.5

3.5

TABLE III (Cont'd)

a. Orbiter Model

MODEL COMPONENT: NOZZLES - Nos

GENERAL DESCRIPTION: The two orbiter maneuvering system nozzles are laval-bell shaped and are located at the aft end of the OMS pods. These dimensions are external and are not to be used for plume tests.

MODEL SCALE: 0.0125DRAWING NUMBER: MC62100009, VC70-000002, VL70-008401, Aerojet 1181900

DIMENSIONS:	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
MACH NO.		
Length - In.		
Gimbal Point to Exit Plane	<u>56.00</u>	<u>0.700</u>
Throat to Exit Plane	<u>56.00</u>	<u>0.700</u>
Diameter - In.		
Exit	<u>45.09</u>	<u>0.564</u>
Throat	<u> </u>	<u> </u>
Inlet	<u> </u>	<u> </u>
Area - ft ²		
Exit	<u>11.69</u>	<u>0.139</u>
Throat	<u> </u>	<u> </u>
Gimbal Point (Station) - In.		
X	<u>1518.0</u>	<u>18.975</u>
Y	<u>83.0</u>	<u>1.100</u>
Z	<u>192.0</u>	<u>2.150</u>
	<u> </u>	<u> </u>
	<u> </u>	<u> </u>
	<u> </u>	<u> </u>
Roll Position - Deg.		
Pitch	<u>15.82°</u>	<u>15.82°</u>
Yaw	<u>6.5°</u>	<u>6.5°</u>
	<u> </u>	<u> </u>
	<u> </u>	<u> </u>

Q

a. Orbiter model

MODEL COMPONENT : RUDDER - R₁₈

GENERAL DESCRIPTION: The rudder is a secondary movable airfoil at the trailing edge of the vertical fin that imparts yaw forces. This dimensional data was calculated from the OML master dimensions 7-19-74.

MODEL SCALE: 0.0125

DRAWING NUMBER

DIMENSIONS	FULL SCALE	MODEL SCALE
Area = ft^2	<u>97.148</u>	<u>0.015</u>
Span (equivalent) , In.	<u>198.614</u>	<u>2.483</u>
Inb'd equivalent chord, In.	<u>90.07</u>	<u>1.126</u>
Outb'd equivalent chord , In.	<u>50.80</u>	<u>0.635</u>
Ratio movable surface chord/ total surface chord	<u> </u>	<u> </u>
At Inb'd equiv. chord	<u>0.400</u>	<u>0.400</u>
At Outb'd equiv. chord	<u>0.400</u>	<u>0.400</u>
Sweep Back Angles, degrees	<u> </u>	<u> </u>
Leading Edge	<u>34.833</u>	<u>34.333</u>
Trailing Edge	<u>26.249</u>	<u>26.249</u>
Hingeline (MAC X AREA, ft^3)	<u>34.833</u>	<u>34.833</u>
Area Moment (Inch ⁴ inch ² inch ²)	<u>584.99</u>	<u>0.0011</u>
Mean Aerodynamic Chord, In.	<u>72.260</u>	<u>0.903</u>

TABLE III (Cont'd)

a. Orbiter Model

MODEL COMPONENT: VERTICAL - V23 (outer fold lines)

GENERAL DESCRIPTION: The vertical tail is double-wedge shaped and mounted dorsally on the aft fuselage. These data correspond to configuration 140C.

MODEL SCALE: 0.0125DRAWING NUMBER: VC70-000002, master dimensions.

DIMENSIONS:	FULL SCALE	MODEL SCALE
-------------	------------	-------------

TOTAL DATA

Area (Theo) - Ft ²		
Planform	413.253	0.065
Span (Theo) - In.	315.72	3.942
Aspect Ratio	1.675	1.675
Rate of Taper	0.507	0.507
Taper Ratio	0.404	0.404
Sweep-Back Angles, Degrees.		
Leading Edge	45.000	45.000
Trailing Edge	26.25	26.25
0.25 Element Line	41.13	41.13
Chords:		
Root (Theo) WP	262.50	3.356
Tip (Theo) WP	102.77	1.356
M.C	192.51	2.493
Fus. Sta. of .25 MAC	1153.50	14.294
W.P. of .25 MAC	635.52	7.944
B.L. of .25 MAC	0.0	0.0
Airfoil Section		
Leading Wedge Angle - Deg.	10.00	10.00
Trailing Wedge Angle - Deg.	11.22	11.22
Leading Edge Radius	2.00	0.0250
Void Area	12.07	0.007
Blanketed Area	0.0	0.0

TABLE III (Cont'd)

a. Orbiter Model

MODEL COMPONENT: WING-W₁₁₇

GENERAL DESCRIPTION:

NOTE: Identical to W₁₁₇, except airfoil thickness. Dihedral angle is along trailing edge of wing. Geometric twist = 0.

MODEL SCALE: 0.0125

TEST NO.

DWG. NO. VL70-000140A, -000200

DIMENSIONS:

FULL-SCALE

MODEL SCALE

TOTAL DATA

Area (Theo.) Ft^2

Planform

Span (Theo) In.

Aspect Ratio

Rate of Taper

Taper Ratio

Dihedral Angle, degrees

Incidence Angle, degrees

Aerodynamic Twist, degrees

Sweep Back Angles, degrees

Leading Edge

Trailing Edge

0.25 Element Line

Chords:

Root (Theo) B.P.O.O.

Tip, (Theo) B.P.

MAC

Fus. Sta. of .25 MAC

W.P. of .25 MAC

B.L. of .25 MAC

EXPOSED DATA

Area (Theo) Ft^2

Span, (Theo) In. BP108

Aspect Ratio

Taper Ratio

Chords

Root BP108

Tip $1.00 \frac{b}{2}$

MAC

Fus. Sta. of .25 MAC

W.P. of .25 MAC

B.L. of .25 MAC

Airfoil Section (Rockwell Mod NASA)

XXXX-64

Root $b =$ $\frac{2}{2}$ Tip $b =$ $\frac{2}{2}$

Data for (1) of (2) Sides

Leading Edge Cuff

Planform Area Ft^2

Leading Edge Intersects Fus M. L. @ Sta

Leading Edge Intersects Wing @ Sta

TABLE III (Cont'd)

a. Orbiter Model

MODEL COMPONENT : ORBITER TAILCONE - TC₁

GENERAL DESCRIPTION : Fairing mounted on orbiter fuselage base for ferry missions configuration.

MODEL SCALE: 0.0125

DRAWING NUMBER : SS-A01452

DIMENSIONS :	FULL SCALE	MODEL SCALE
Length	<u>135.76</u>	<u>5.447</u>
Max Width	<u>300.80</u>	<u>3.76</u>
Max Depth Height	<u>266.40</u>	<u>3.33</u>
Fineness Ratio	<u> </u>	<u> </u>
Area - Ft ²	<u> </u>	<u> </u>
Max. Cross-Sectional	<u>162.37</u>	<u>0.0722</u>
Planform	<u>635.803</u>	<u>0.0993</u>
Wetted	<u> </u>	<u> </u>
Base	<u> </u>	<u> </u>

TABLE III (Cont'd)

b. Carrier Model

MODEL COMPONENT: ATTACH STRUCTURE - AT₉₃GENERAL DESCRIPTION: Forward attach structure between the Orbiter and Carrier, unfaired circular struts, $i_0 = 6^\circ$

MODEL SCALE: 0.0125

DRAWING NO.: Boeing Dwg 747-MD-654, SS-A01559-3, -11

DIMENSIONS:		FULL SCALE	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
i_0 , Incidence angle, Deg. (Orbiter FRL to 747 FRL)			6.0	6.0
Right and left member dia., In.			7.0	0.0875
Carrier attach points, In.	BSTA	689.4		8.617
	BWL	372.0		4.650
	BL	66.3		0.829
Orbiter attach point , In.	X ₀	388.15		4.852
	Z ₀	283.11		3.539
	Y ₀	0.0		0.0
	BSTA	684.9		8.561
	BWL	512.7		6.409

TABLE III (Cont'd)

b. Carrier Model

MODEL COMPONENT: ATTACH STRUCTURE - AT₉₅GENERAL DESCRIPTION: Aft attach structure between Orbiter and Carrier,
unfaired circular struts.

MODEL SCALE: 0.0125

DRAWING NO.: Boeing Dwg 747-MD-658, W-1135A-11, -12

DIMENSIONS:

		<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Right and left member dia., In.		12.0	0.150
Drag strut support dia., In.		12.0	0.150
Sway brace dia., In.		7.0	0.088
Carrier attach points, In.	BSTA	1607.0	20.087
	BWL	320.0	4.000
	BL	± 96.51	± 1.206
Orbiter attach points, In.	X ₀	1317.0	16.462
	Y ₀	± 96.51	± 1.206
	Z ₀ , BL	267.5	3.344
	BSTA	1607.0	20.087
	BWL	400.0	5.000

TABLE III (Cont'd)

b. Carrier Model

MODEL COMPONENT: ATTACH STRUCTURE - AT₉₆GENERAL DESCRIPTION: Forward attach structure between the Orbiter and Carrier, faired struts, $i_0 = 4^\circ$

MODEL SCALE: 0.0125

DRAWING NO.: Boeing Dwg. 747-MD-654, SS-A01559-4, -18, -35

DIMENSIONS:		<u>FULL SCALE</u>	<u>MODEL SCALE</u>
i_0 , Incidence angle, deg. (Orbiter FRL to 747 FRL)		4.0	4.0
Fairing chord, right and left, In.		31.0	0.388
Fairing T/C		0.226	0.226
Carrier attach points, In.	BSTA	689.4	8.617
	BWL	372.0	4.650
	BL	66.3	0.829
Orbiter attach points, In.	X_0	388.15	4.852
	Z_0	283.11	3.539
	Y	0.0	0.0
	BSTA	681.52	8.519
	BWL	480.4	6.005

TABLE III (Cont'd)

b. Carrier Model

MODEL COMPONENT: ATTACH STRUCTURE - AT₉₇

GENERAL DESCRIPTION: Forward attach structure between the Orbiter and
Carrier, faired struct, $i_0 = 6^\circ$

MODEL SCALE: 0.0125

DRAWING NO.: Boeing Dwg 747-MB-654, SS-A0159-3, -11, -35

DIMENSIONS:		<u>FULL SCALE</u>	<u>MODEL SCALE</u>
i_0 , Incidence angle, deg. (Orbiter FRL to 747 FRL)		6.0	6.0
Fairing chord, right and left, In.		31.0	0.388
Fairing t/c		0.226	0.226
Carrier attach points, In.	ESTA	689.4	8.617
	BWL	372.0	4.650
	BL	66.3	0.829
Orbiter attach point, In.	X_0	388.15	4.852
	Z_0	283.11	3.539
	Y_0	0.0	0.0
	BSTA	684.88	8.561
	BWL	512.72	6.409

TABLE III (Cont'd)

b. Carrier Model

MODEL COMPONENT: ATTACH STRUCTURE - AT₉₈GENERAL DESCRIPTION: Forward attach structure between the Orbiter and Carrier, faired struts, $i_0 = 8^\circ$

MODEL SCALE: 0.0125

DRAWING NO.: Boeing Dwg 747-MD-654, SS-A01559-5, -19, -35

DIMENSIONS:

		<u>FULL SCALE</u>	<u>MODEL SCALE</u>
i_0 , Incidence angle, deg.		8.0	8.0
(Orbiter FRL to 747 FRL)			
Fairing chord, right and left, In.		31.0	0.388
Fairing t/c		0.226	0.226
Carrier attach points, In.	BSTA	689.4	8.617
	BWL	372.0	4.650
	BL	66.3	0.829
Orbiter attach points, In.	X ₀	388.15	4.852
	Z ₀	283.11	3.539
	Y ₀	0.0	0.0
	BSTA	689.4	8.617
	BWL	544.72	6.809

TABLE III (Cont'd)

b. Carrier Model

MODEL COMPONENT: ATTACH STRUCTURE - AT₉₉

GENERAL DESCRIPTION: Aft attach structure between orbiter and carrier, same as AT₉₅ with a single fairing covering the main strut and drag strut on each side, and a fairing on the sway brace.

MODEL SCALE: 0.0125

DRAWING NO.: Boeing Dwg 747-MD-658, W-1135A-11, -12, SS-A01559-33, -34, -35

DIMENSIONS:

		<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Orbiter attach points, In.	X ₀	1317.0	16.462
	Y ₀	± 96.51	± 1.206
	Z , BL	267.5	3.344
	ESTA	1607.0	20.087
	BWL	400.0	5.000
Main fairing:			
	Root chord, In.	250.0	3.125
	T/c of root chord	0.09	0.09
	Tip chord, In.	120.0	1.500
	T/c of tip chord	0.14	0.14
Sway brace:			
	Chord, In.	31.0	0.388
	T/c	0.226	0.226

TABLE III (Cont'd)

b. Carrier Model

MODEL COMPONENT: ATTACH STRUCTURE, AT₁₀₀

GENERAL DESCRIPTION: Aft attach structure between Orbiter and Carrier,
same as AT₉₉ except the sway brace is unfaired.

MODEL SCALE: 0.0125

DRAWING NO.: Boeing Dwg 747-MD-658, W-1135A-11, -12, SS-A01559-33, -34

DIMENSIONS:

	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Sway brace dia., In.	7.0	0.0875

TABLE III (Cont'd)

MODEL COMPONENT : BODY - b. Carrier Model
B-27.8GENERAL DESCRIPTION : Body 747 Project with A.P.V.MODEL SCALE: 0.0125 MODEL DMC: 1318I-1DRAWING NUMBER : 65C13609, 1318-54

DIMENSIONS :

FULL SCALE

MODEL SCALE

Length , In.

2702.033.78

Max Width , In.

255.33.19

Max Depth

Fineness Ratio

9.739.73Area - Ft²

Max. Cross-Sectional

Planform

Wetted

14.093.0022

Base

TABLE III (Cont'd)

b. Carrier Model

MODEL COMPONENT: WING - W_{44.1}

GENERAL DESCRIPTION: Swept 747 wing

MODEL SCALE: 0.0125

MODEL DWG: 1318I-1

DRAWING NO.: 65C13609, 1318-46

DIMENSIONS:

FULL SCALE MODEL SCALE

Total Data:

Area (Theo.), Ft²

Planform

5500.00 0.860

Span (Theo.), In.

2348.0 29.35

Aspect ratio

6.96 6.96

Incidence angle, deg.

7.0 7.0

Chords, In.:

MAC

327.8 4.10

Fus. sta. of 0.25 MAC

1339.87 16.75

W.P. of 0.25 MAC

190.42 2.38

TABLE III (Cont'd)

b. Carrier Model

MODEL COMPONENT: VERTICAL - $V_{9.1}$

GENERAL DESCRIPTION: Swept vertical tail

MODEL SCALE: 0.0125

MODEL DWG: 1318I-1

DRAWING NO.: 65C13609, 1318-8

DIMENSIONS:

TOTAL DATA

	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Area (Theo), Ft^2	630.0	0.098
Span (Theo), In.	386.5	4.830
Sweepback angles, deg., L.E.	50.12	50.12
Aspect ratio	1.25	1.25
Chord:		
Root (Theo), WP, In.	461.67	5.77
Tip (Theo), WP, In.	157.0	1.96
Mean Aerodynamic Chord, In.	334.16	4.2
Fus. Sta. of 0.25 MAC	2529.6	31.62
W.P. of 0.25 MAC	528.0	6.60

TABLE III (Cont'd)
b. Carrier Model

MODEL COMPONENT: HORIZONTAL TAIL - H₁₅

GENERAL DESCRIPTION: Swept 747 horizontal stabilizer

MODEL SCALE: 0.0125

MODEL NO.: 1318I-1

DRAWING NO.: 65C13609, 1318-5

DIMENSIONS:

	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Area (Theo.), ft ²		
Planform	1470.0	0.230
Span (Theo), In.	873.00	10.91
Aspect ratio	3.6	3.6
Chords:		
MAC, In.	271.6	3.40
Fus. Sta. of 0.25 MAC, In.	2563.9	32.05
W.P. of 0.25 MAC, In.	175.0	2.19
Sweepback angle of 0.25 MAC, deg.	37.5	37.5

TABLE III (Cont'd)
b. Carrier Model

MODEL COMPONENT: HORIZONTAL TAIL - H_{15.6}

GENERAL DESCRIPTION: Horizontal tail, H₁₅, with vertical fins on each
tip at body B.L. 427.3

MODEL SCALE: 0.0125

MODEL DWG: 1318I-1

DRAWING NO.: 65C13609, 1318-5, 1318-70

DIMENSIONS:

Fin Exposed Data (one side):

	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Area = Ft ²	200.0	0.0312
Span, In.	252.0	3.15
Chord, In.	113.6	1.42

TABLE III (Cont'd)
b. Carrier Model

MODEL COMPONENT: M₂₅

GENERAL DESCRIPTION: Inboard 747, JT9D nacelle strut

MODEL SCALE: 0.0125

MODEL DWG: 1318I-1

DRAWING NO.: 65C13609, 1318-60

DIMENSIONS:

	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Wing B.L. of nacelle C _L , In.	470.0	5.875
Cant angle deg., inboard	2.0	2.0

TABLE III (Cont'd)

b. Carrier Model

MODEL COMPONENT: M₂₆

GENERAL DESCRIPTION: Outboard 747, JT9D

Strut

MODEL SCALE: 0.0125

MODEL DWG: 1318I-1

DRAWING NO.: 65C13609, 1318-60

DIMENSIONS:

	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
W L of C _L , In.	834.0	10.425
Cant angle, deg. inboard	2.0	2.0

TABLE III (Cont'd)

b. Carrier Model

MODEL COMPONENT: N₅₇

GENERAL DESCRIPTION: Inboard fan cowl and primary 747 nacelle, flow-through type.

MODEL SCALE: 0.0125

MODEL DWG: 1318I-1

DRAWING NO.: 65C13609, 1318-60

TABLE III (Cont'd)

b. Carrier Model

MODEL COMPONENT: N₅₈

MODEL DESCRIPTION: Outboard fan cowl and primary 747 nacelle, flow-through type.

MODEL SCALE: 0.0125

MODEL DWG: 1318I-1

DRAWING NO.: 65C13609, 1318-60

TABLE III (Cont'd)

b. Carrier Model

MODEL COMPONENT: SPOILERS - S_{1-12}

GENERAL DESCRIPTION: Multi-panel flight spoilers. Four outboard and two inboard spoilers per side. Subscript denotes spoiler panel S_1 is the most outboard L.H. panel and S_{12} is most outboard R.H. panel.

MODEL SCALE: 0.0125

MODEL DWG: 1318I-1

DRAWING NO.: 65C13609, 1318-56

DIMENSIONS: (ONE PANEL)

	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Outboard S_{1-4} and S_{9-12} (Ft^2)	21.48	0.0034
Span (equivalent), In.	75.00	0.94
Chord, In.	41.28	0.52
Inboard, S_{5-6} and S_{7-8} (Ft^2)	35.31	0.0055
Span (equivalent), In.	90.00	1.130
Chord, In.	56.52	0.71

TABLE III (Concluded)

b. Carrier Model

MODEL COMPONENT: T₁₄

GENERAL DESCRIPTION: Flap track fairings, four on each side

MODEL SCALE: 0.0125

DRAWING NO.: 65C13609, 1318-67

DIMENSIONS:

WBL of Track No. 1, In.

2, In.

3, In.

4, In.

Distance from wing

Trailing edge to:

Track trailing edge, In.

FULL SCALE

MODEL SCALE

235.3

2.94

353.0

4.41

585.0

7.31

743.6

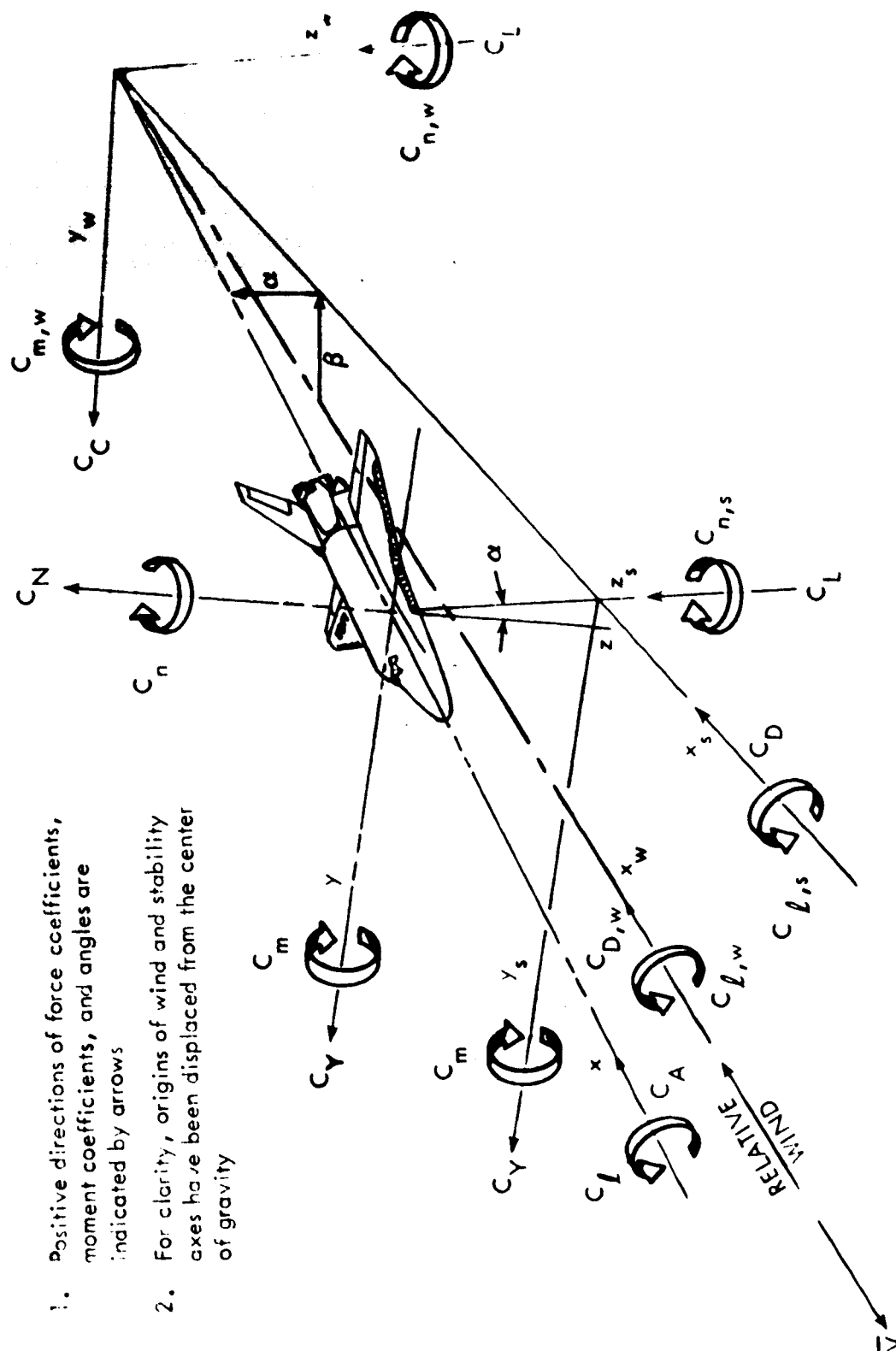
9.30

44.0

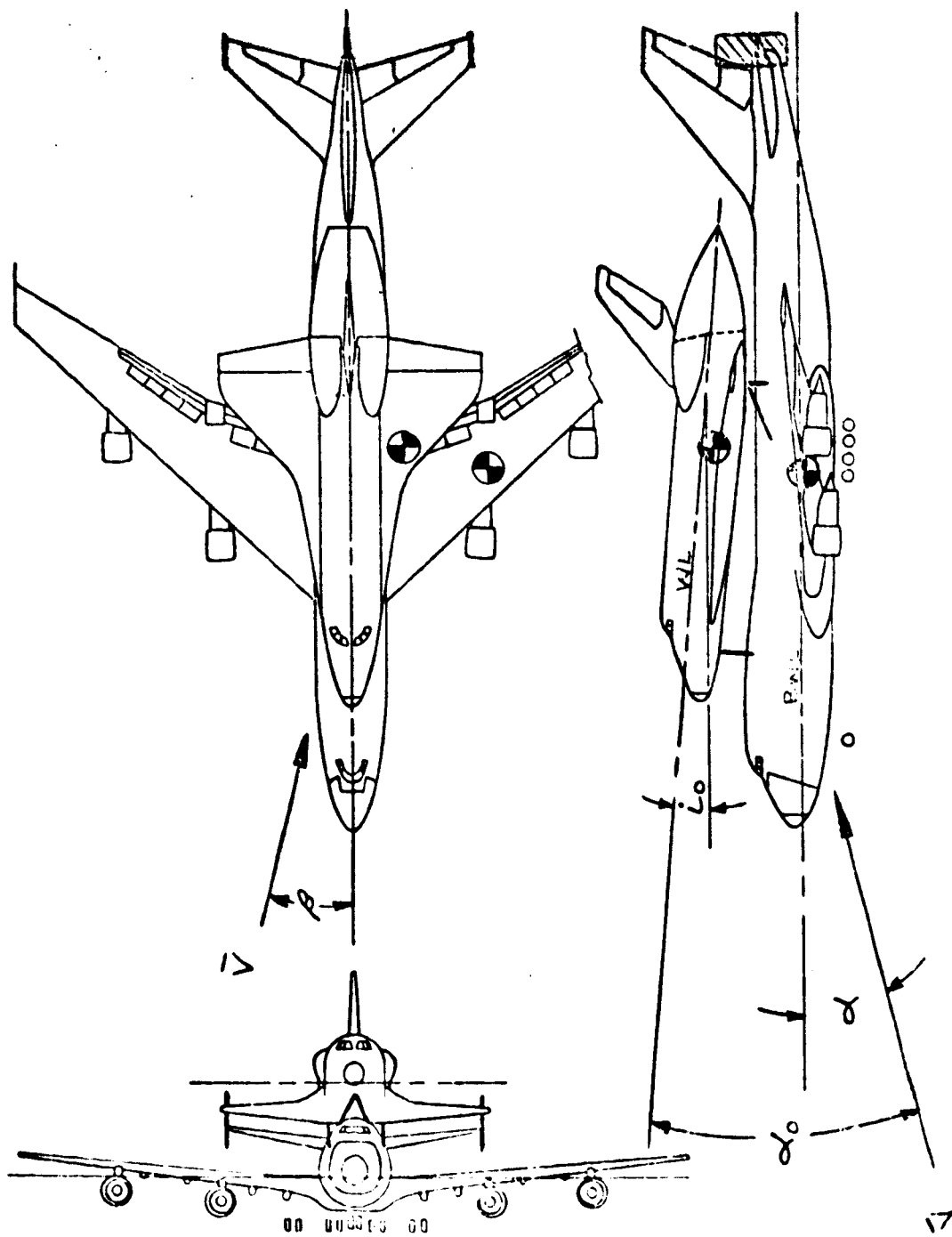
0.55

Notes:

1. Positive directions of force coefficients, moment coefficients, and angles are indicated by arrows
2. For clarity, origins of wind and stability axes have been displaced from the center of gravity



a. Orbiter
Figure 1. Axis Systems

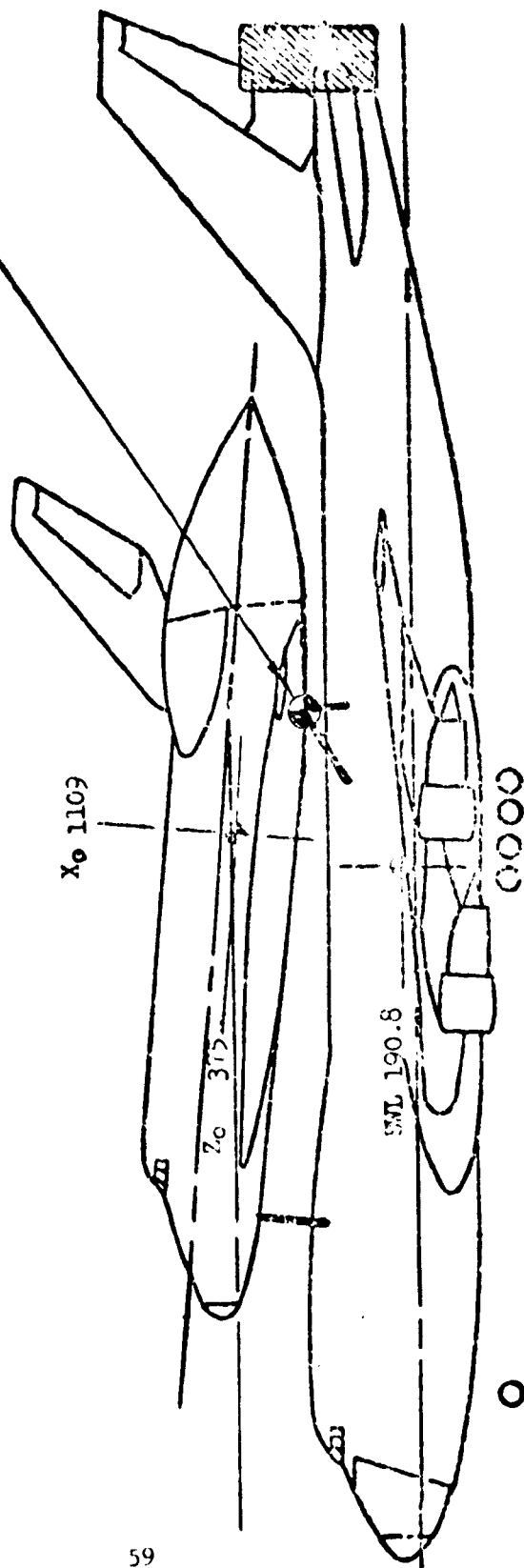


b. Orbiter/747 Angular Relations
Figure 1. Axis Systems - (Concluded)

REFERENCE DIMENSIONS (FS)

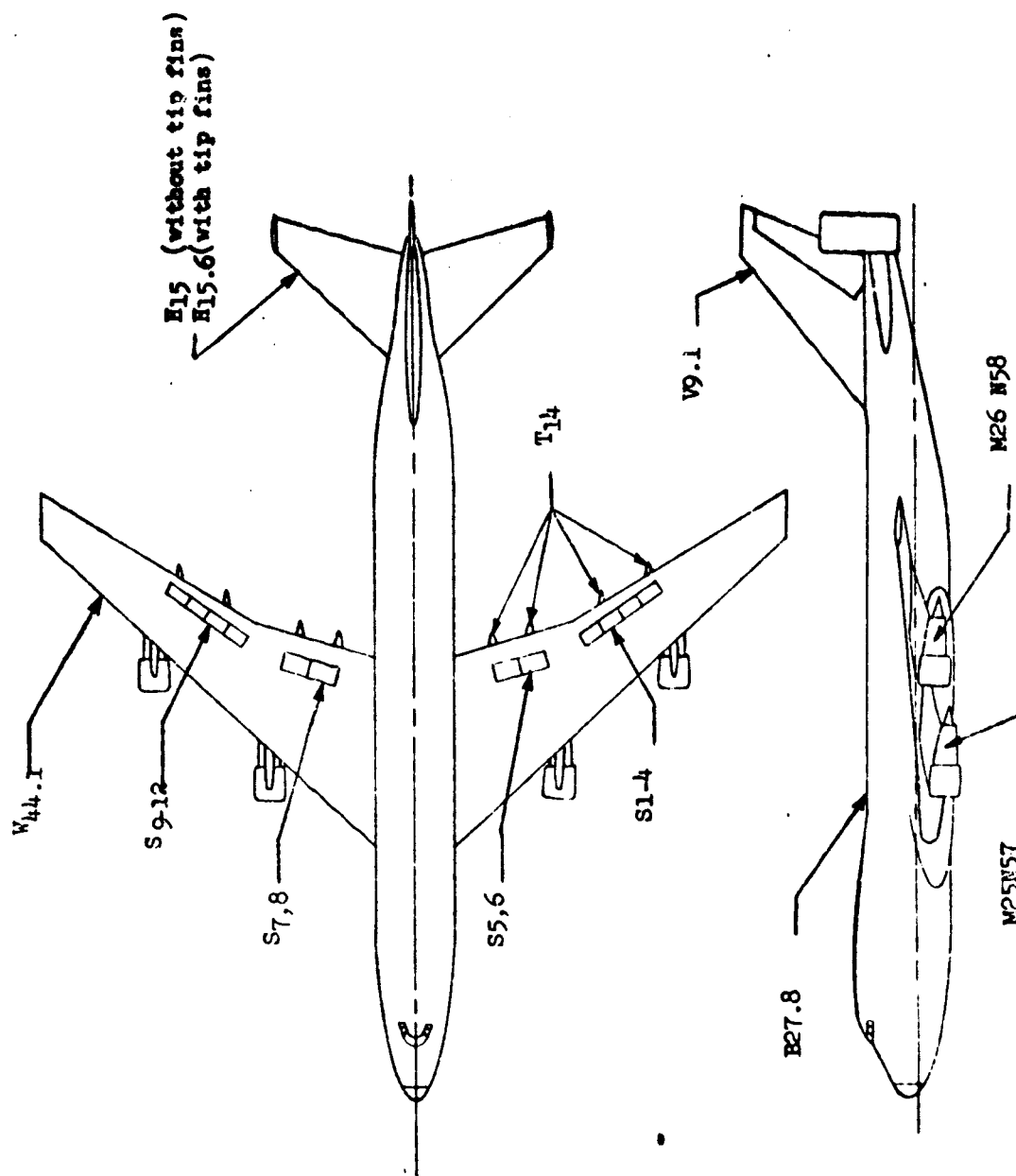
	ORBITER	747 CARRIER
WING AREA ~ FT ²	2690	5500
MAC (c) ~ INCHES	474.81	327.78
SPAN (b) ~ INCHES	936.68	2348.04
MOMENT REFERENCE CENTER	67.54 LB	25.0 % C
F.S. ~ INCHES	1109.0	1339.9
W.P. ~ INCHES	375.0	190.6

BML 400
ESTA 1607
(Y₀ 96 51)
(Z₀ 267 5)
(X₀ 1317)

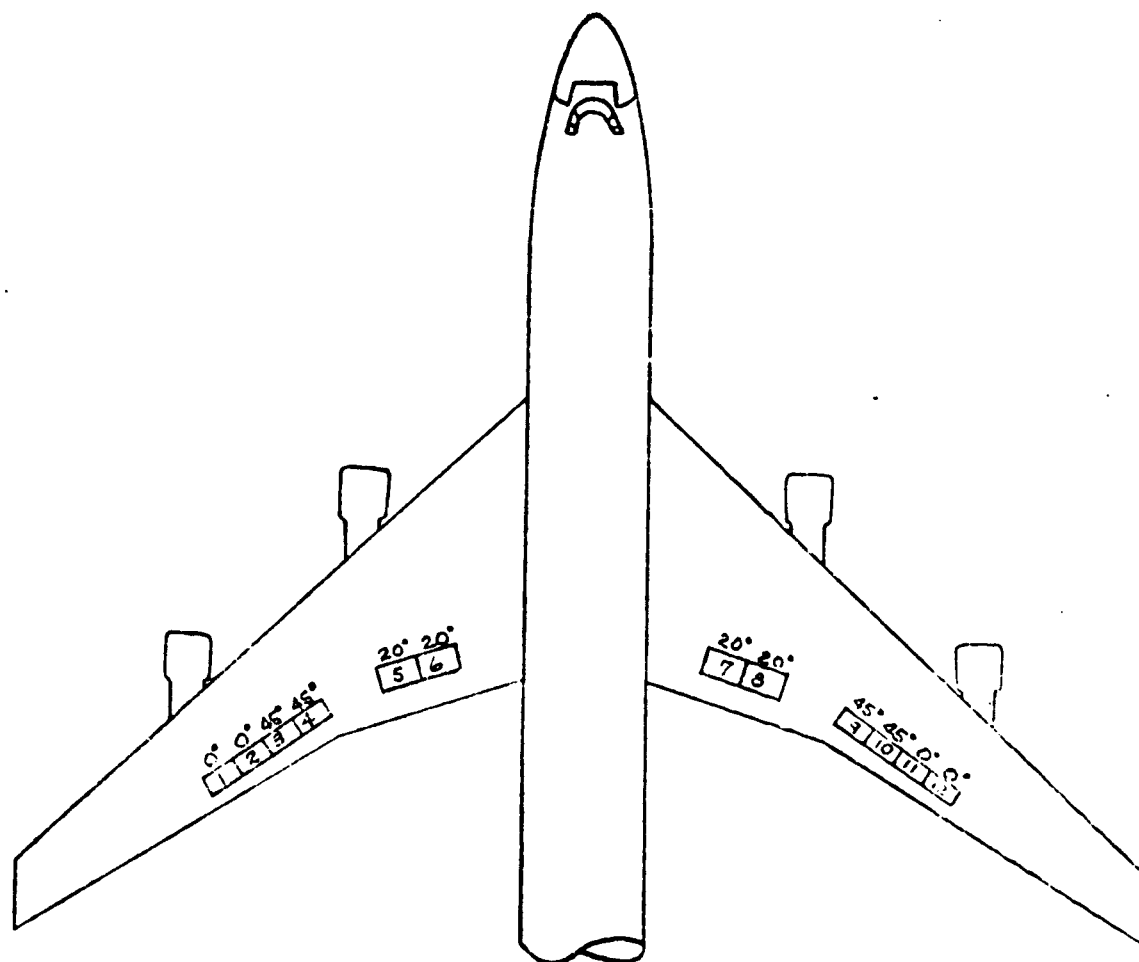


ESTA 1329.9

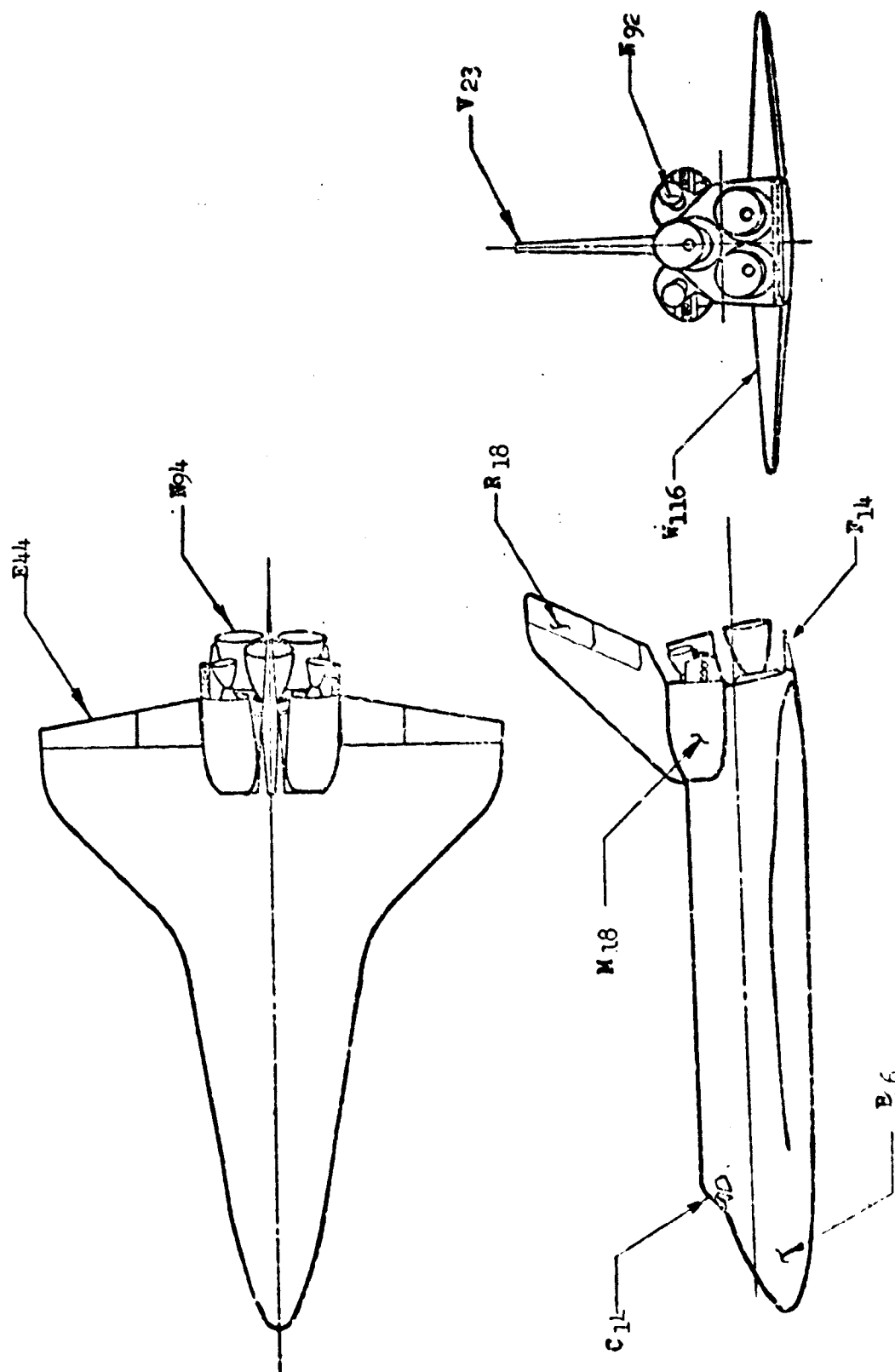
a. Orbiter/747 Flight Test Configuration Reference Dimensions
Figure 2. Model Sketches



b. 747-100 configuration (Model AX13181-1)
Figure 2. - (Continued)

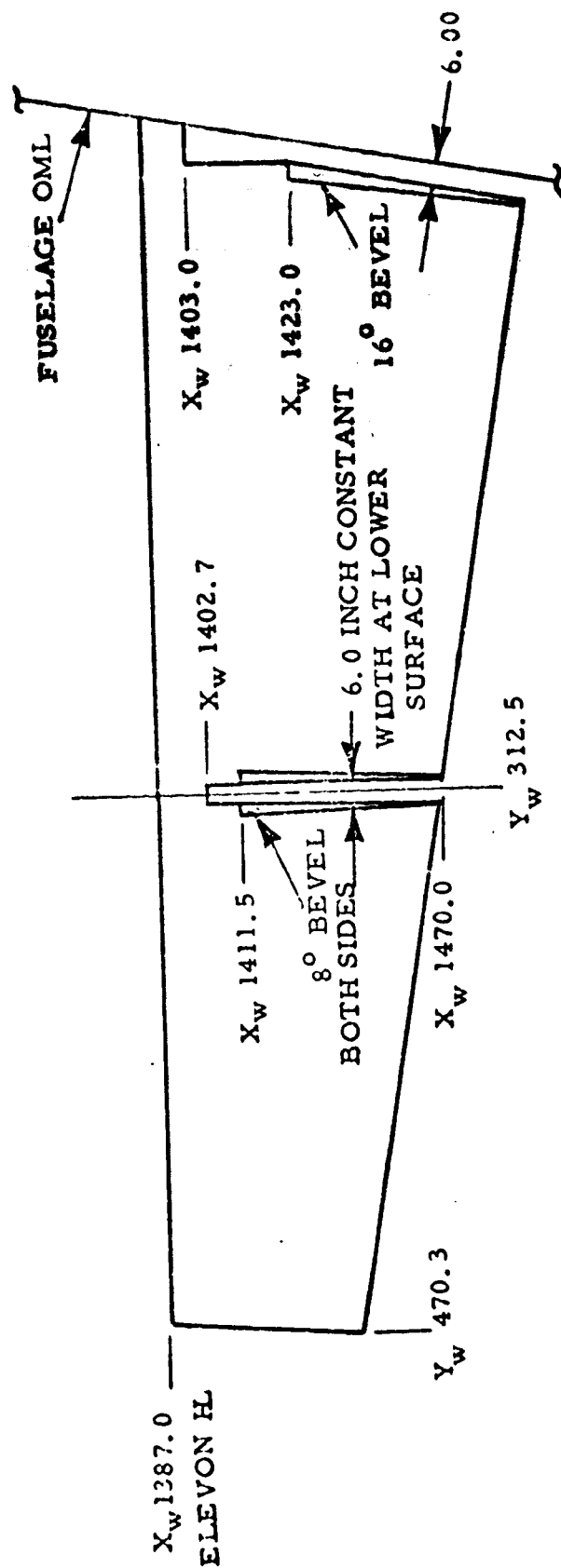


c. In-flight spoiler configuration
Figure 2. - (Continued)



d. SS1 Orbiter Configuration (VC70-000002)
Figure 2. - (Continued)

E44 elevon with 6.0 inch gaps installed. Flipper doors, centerbody pieces, and tip seals are not simulated.

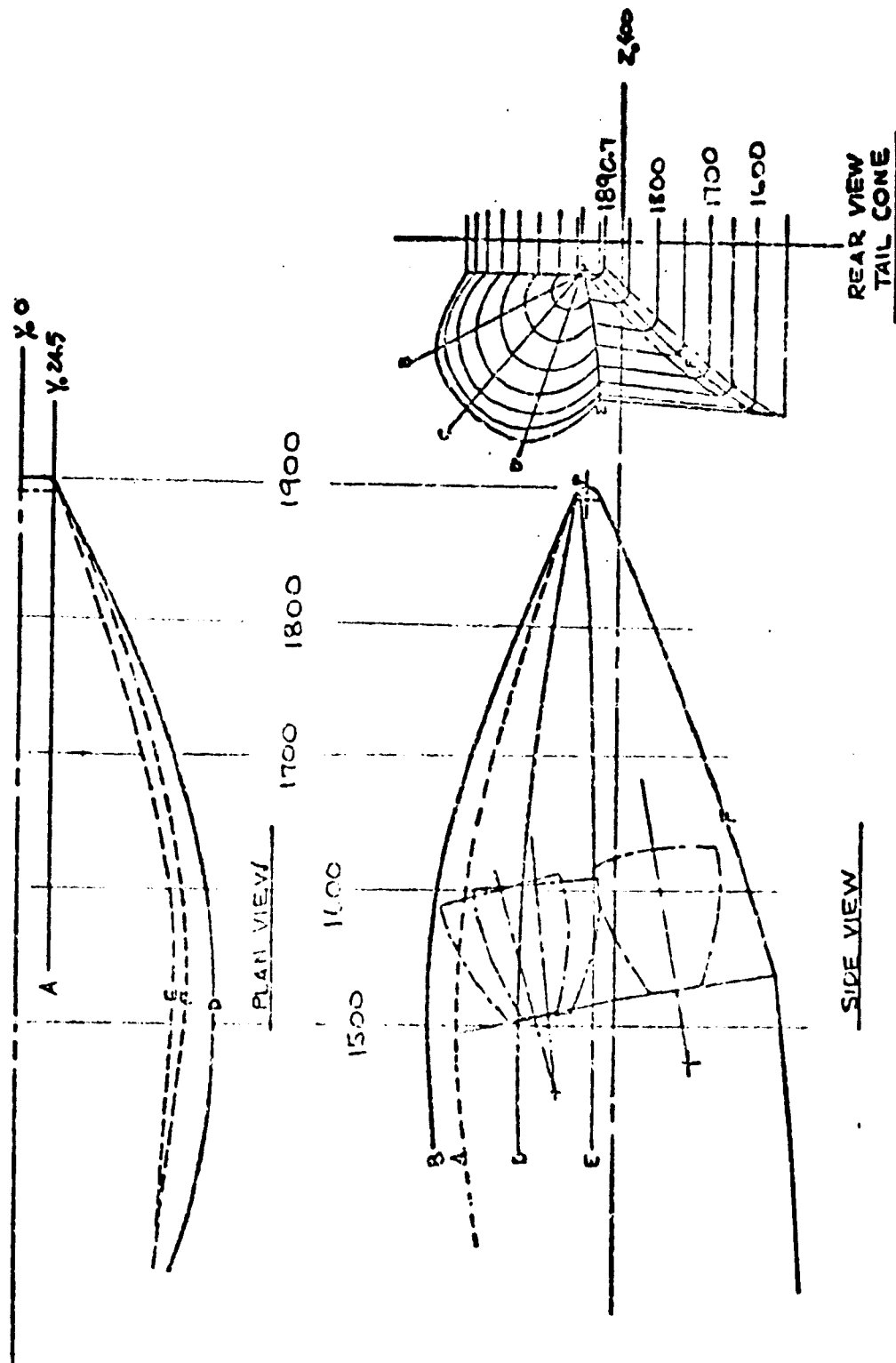


(ALL DIMENSIONS ARE FULL SCALE, INCHES)

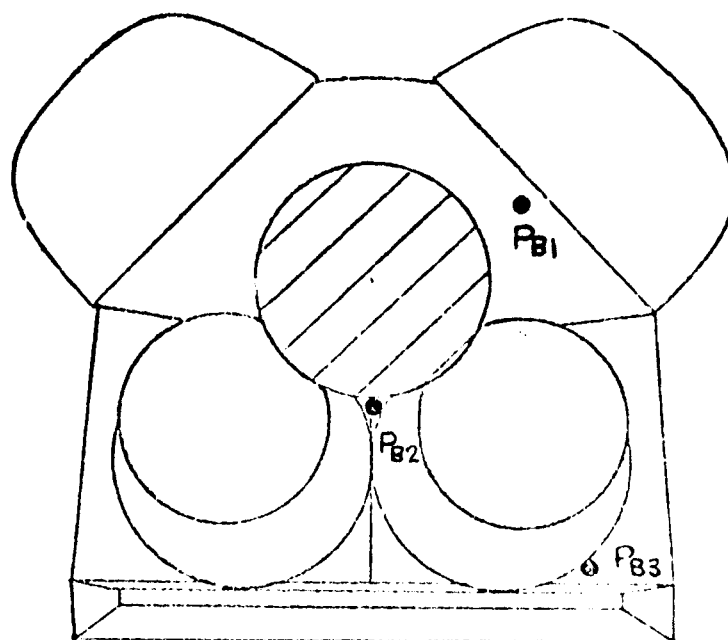
(VIEW IS PERPENDICULAR TO WING
REFERENCE PLANE)

e. Elevon - E44

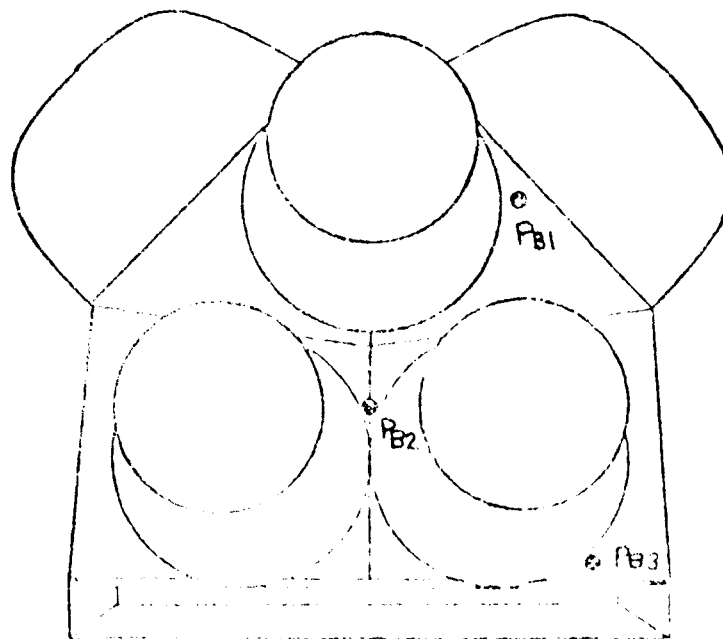
Figure 2. - (Continued)



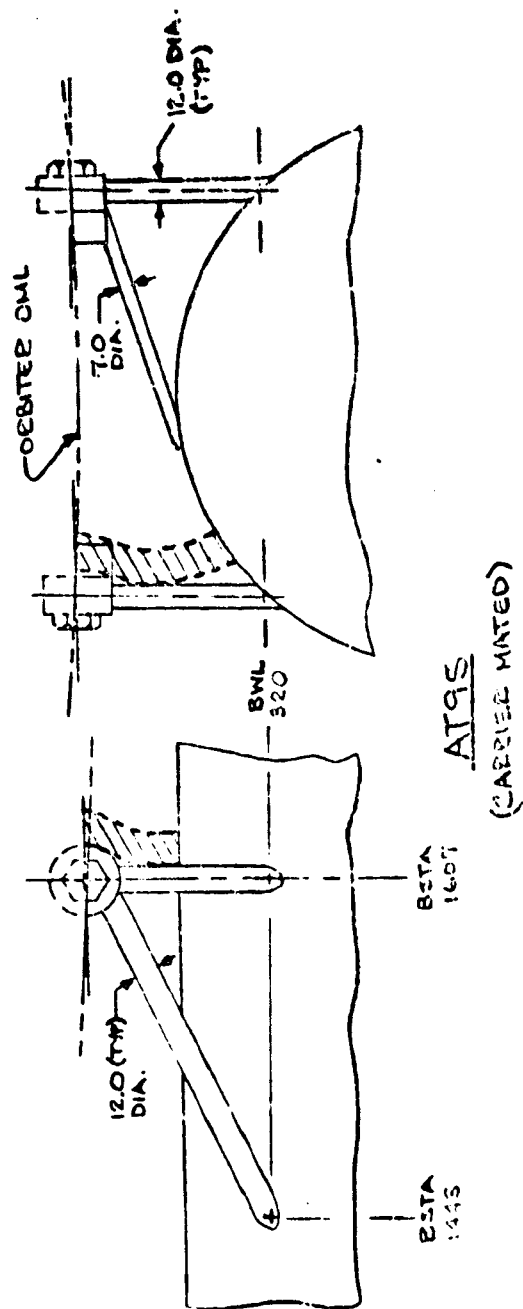
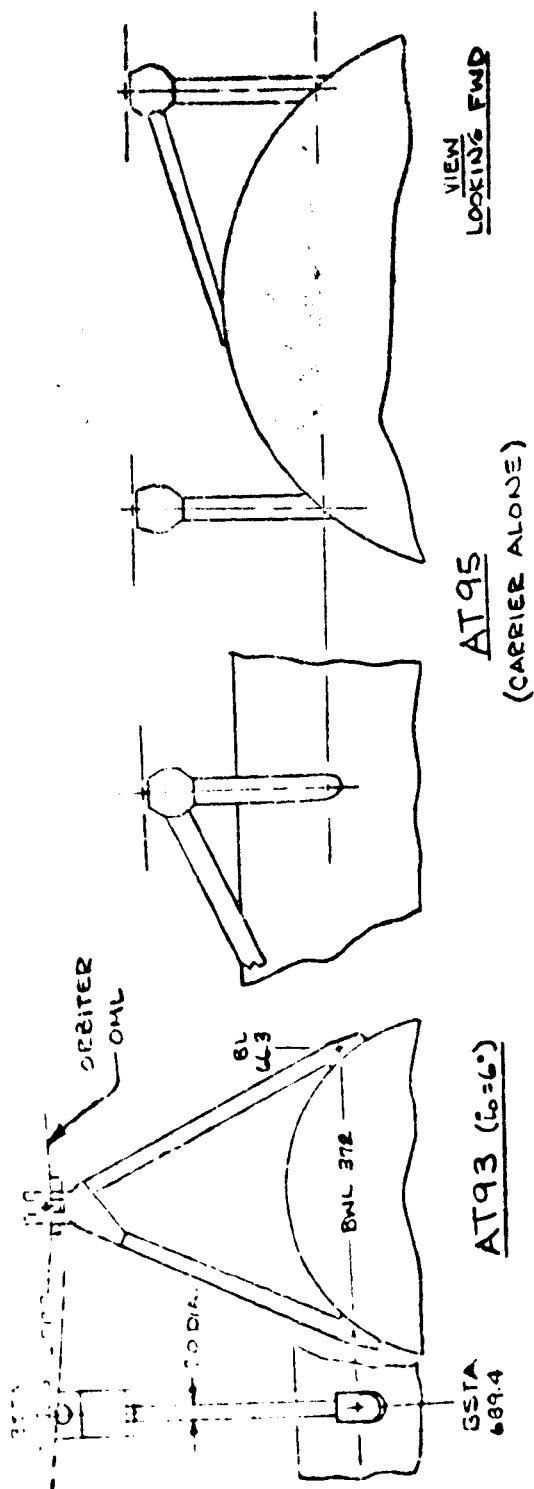
f. Orbiter Tail Cone TC4 (X3B)
Figure 2. - (Continued)



STING MOUNTED

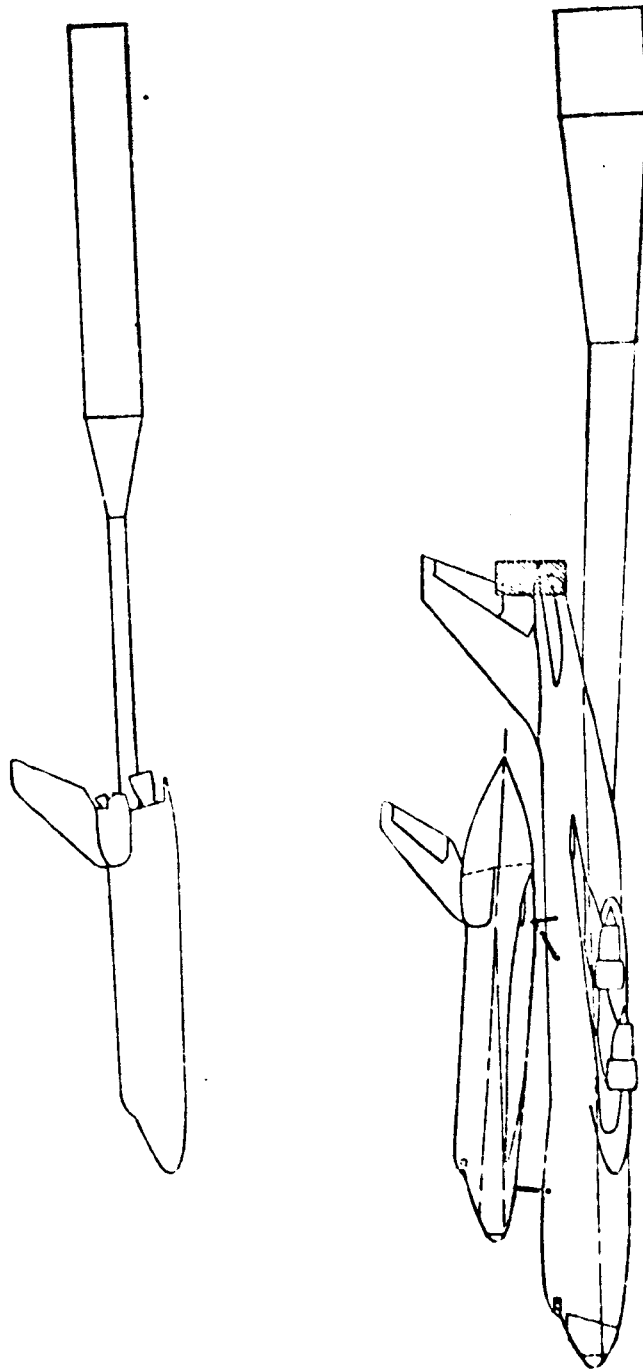


g. Orbiter Base Pressure Tap Locations
Figure 7 - (Continued)



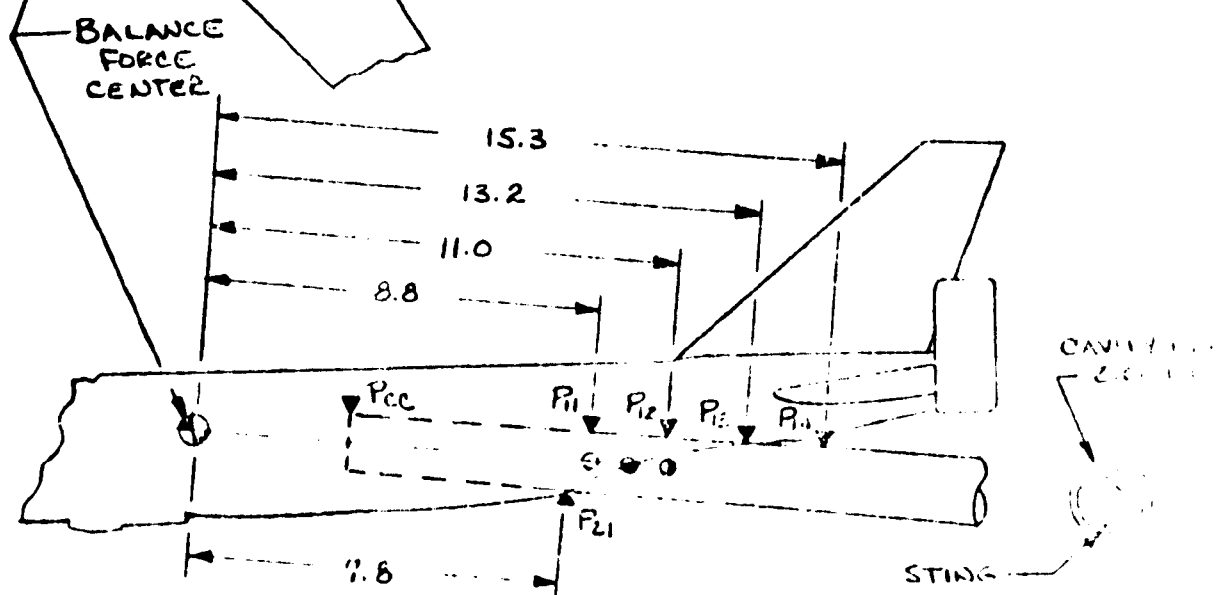
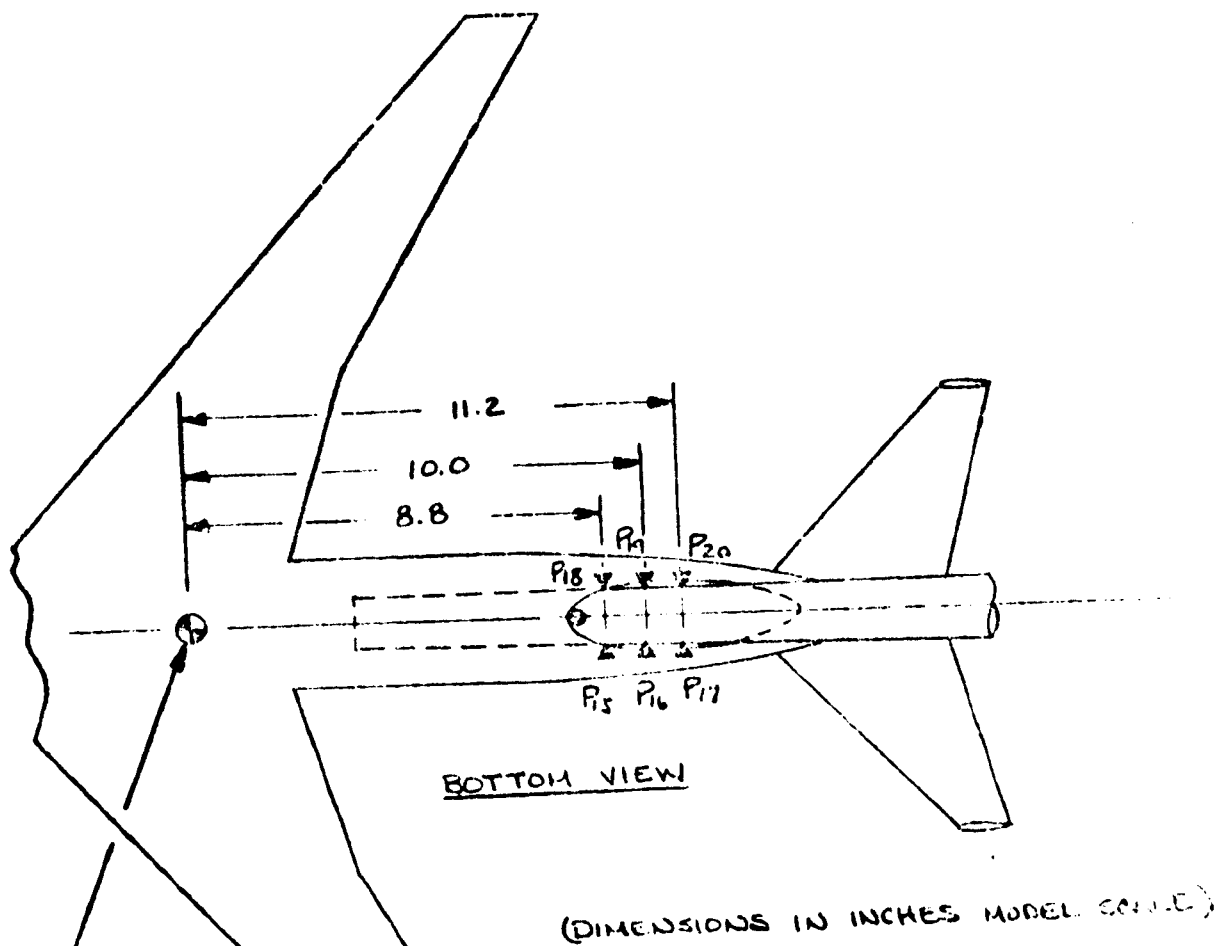
i. Carrier Mated/alone attach structure AT93 and AT95
Figure 1 - (continued)

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR



J. Model installation sketches
Figure 1. - (continued)

D



1. The cavity provides the location for the balance force center.

$$x_{\text{TRANSFER}} = 0.740 + \Delta x_o$$

$$z_{\text{TRANSFER}} = 3.958 + \Delta z_o$$

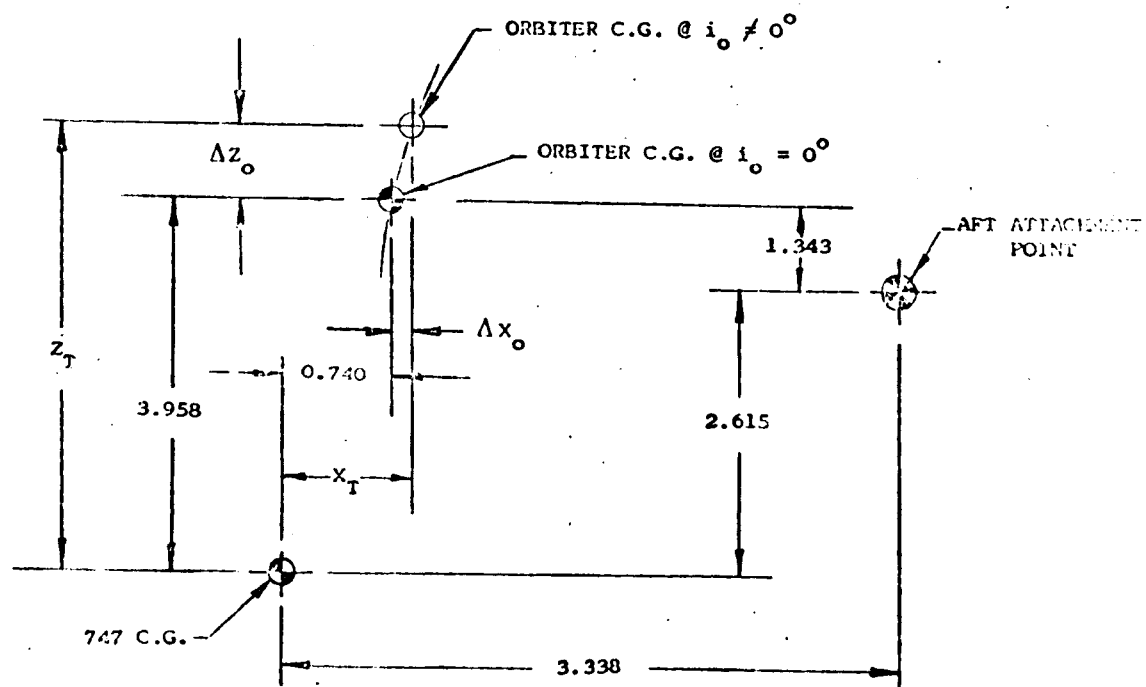
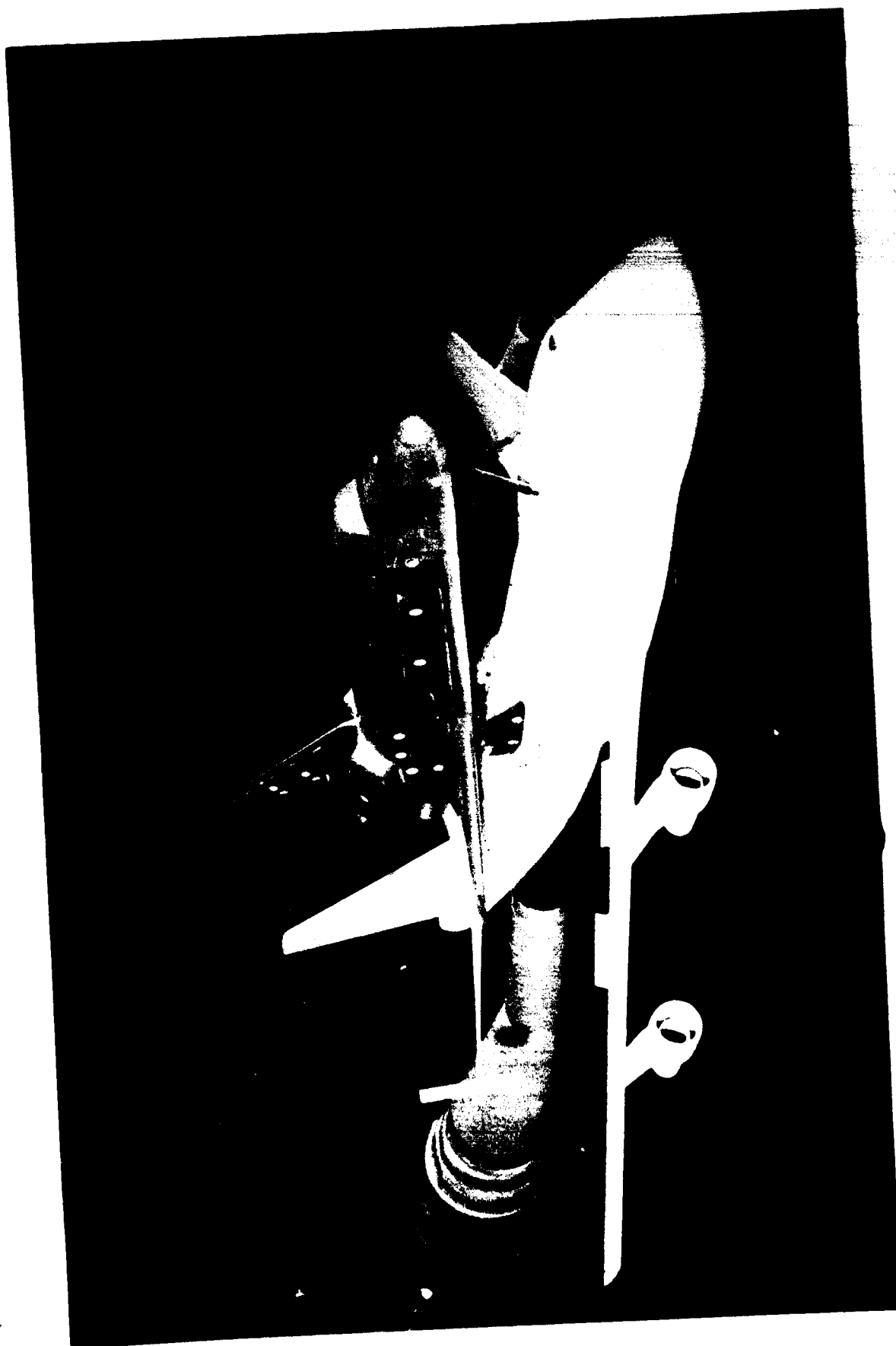


Figure 1. - (Continued)



a. Mated Configuration - Front
Figure 3. Model Installation Photographs



b. Mated Configuration - Rear
Figure 3. - (Concluded)

REPRODUCIBILITY OF THE
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DATA FIGURES



DATA SET SYMBOL (BE9A01) ○ CONFIGURATION DESCRIPTION ARC14-080-1 CA23 045 (ORBITER ISOLATED)

BETA0 .000 ELV-0 5.000 AIL-0 .000 RU0-0 .000

REFERENCE INFORMATION
 SREF 2650.0000 SQ.FT.
 LREF 474.8100 IN.
 BREF 936.6800 IN.
 XMRP 1109.0000 IN. X0
 YMRP .0000 IN. Y0
 ZMRP 375.0000 IN. Z0
 SCALE .0125

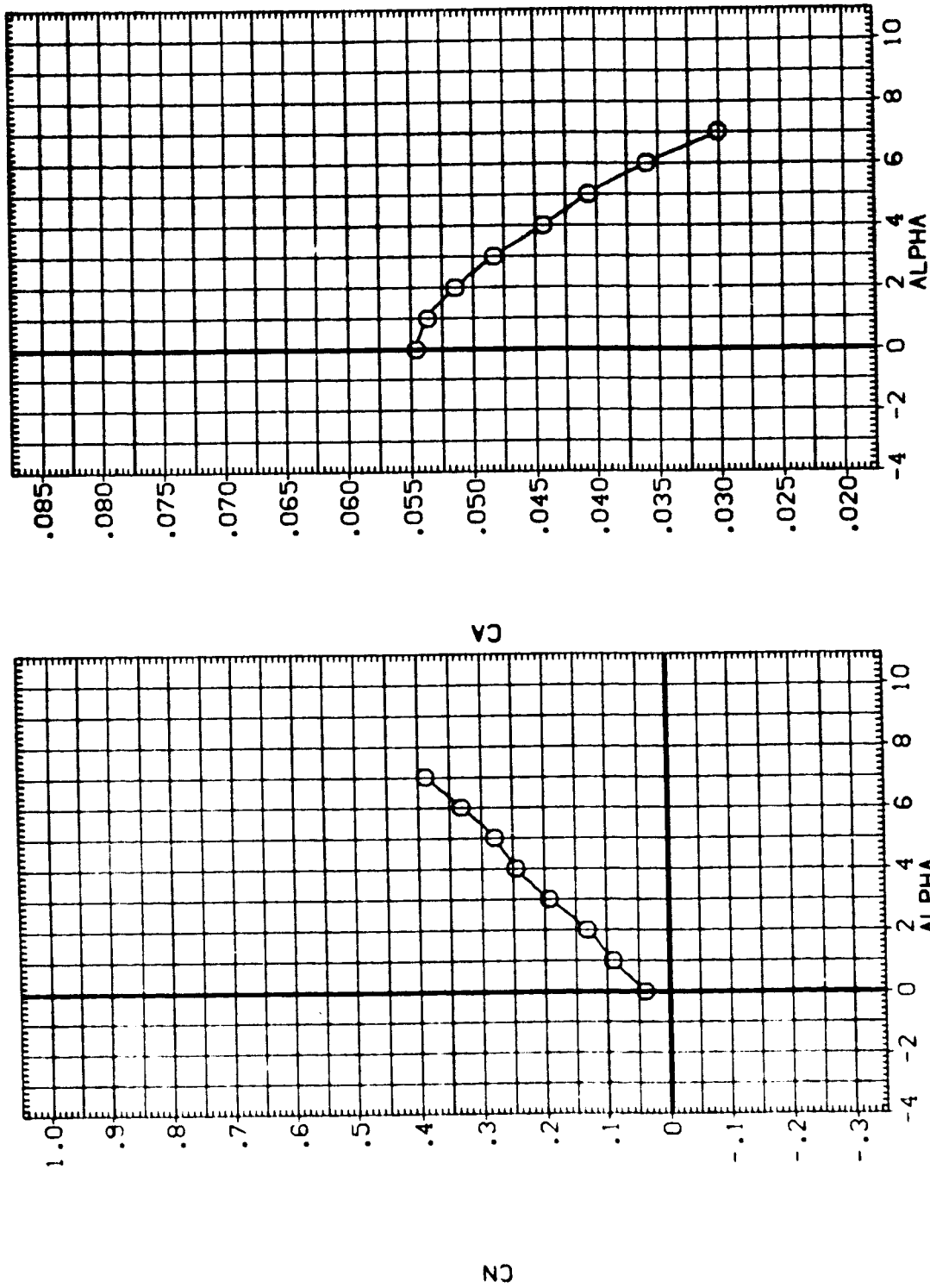


FIG.4 ORBITER ISOLATED AERO CHARACTERISTICS

(A)MACH = .60

DATA SET SYMBOL: C
 CONFIGURATION DESCRIPTION: ARC14-080-1 CA23 045 (ORBITER ISOLATED)

BETA-0 .000
 ELV-0 5.000
 AIL-0 .000
 RUO-0 .000

REFERENCE INFORMATION
 SREF 2690.0000 50.FT.
 LREF 474.8100 IN.
 BREF 936.6800 IN.
 XTRP 1109.0000 IN. X0
 YTRP .0000 IN. Y0
 ZTRP 375.0000 IN. Z0
 SCALE .0125

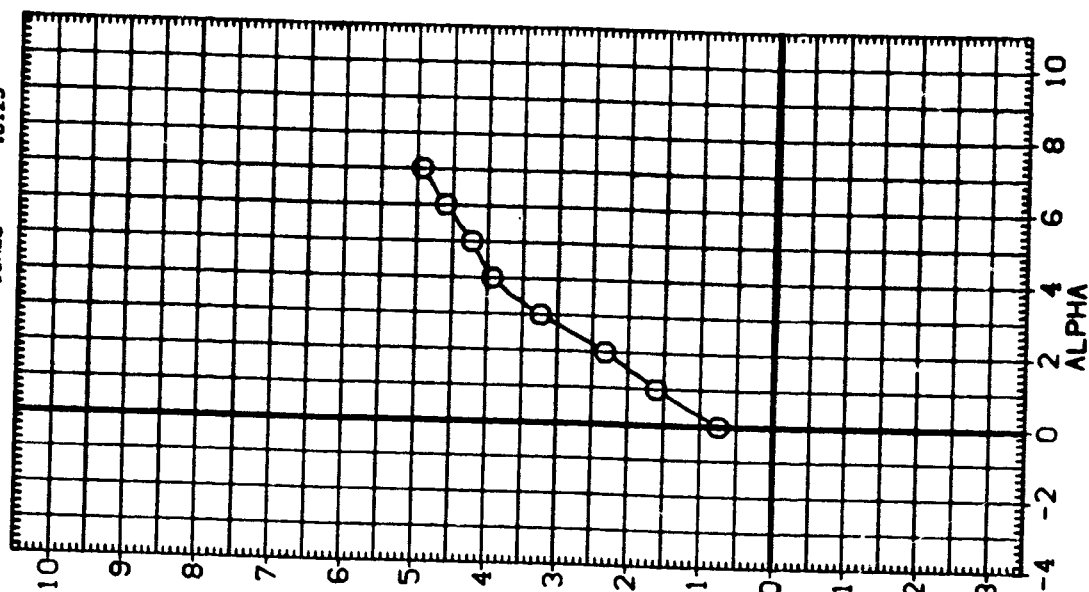
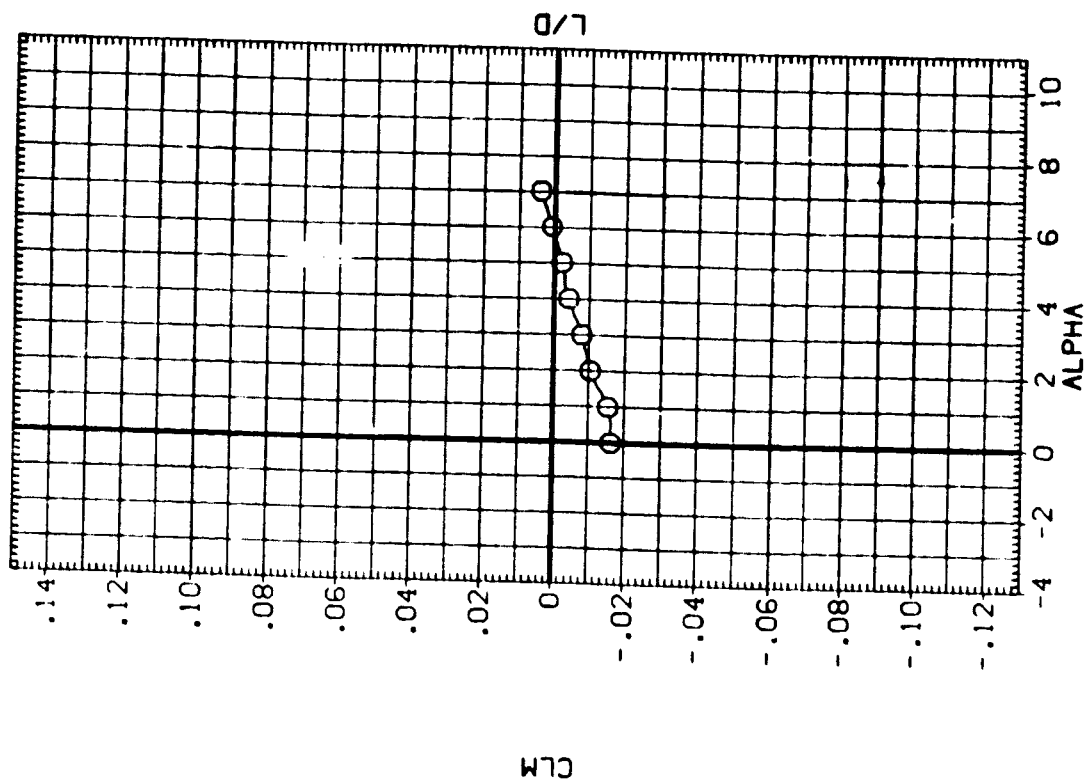


FIG.4 ORBITER ISOLATED AERO CHARACTERISTICS

(A)MACH = .60



DATA SET SYMBOL CONFIGURATION DESCRIPTION
(BEGAC1) ○ ARC14-080-1 CA23 BAS (ORBITER ISOLATED)

BETA0 ELV-0 AIL-0 RUJ-0
.000 5.000 .000 .000

REFERENCE INFORMATION
SREF 2690.0000 SQ.FT.
LREF 474.8100 IN.
BREF 936.6800 IN.
XMRP 1109.0000 IN. X0
YMRP .0000 IN. Y0
ZMRP 375.0000 IN. Z0
SCALE .0125

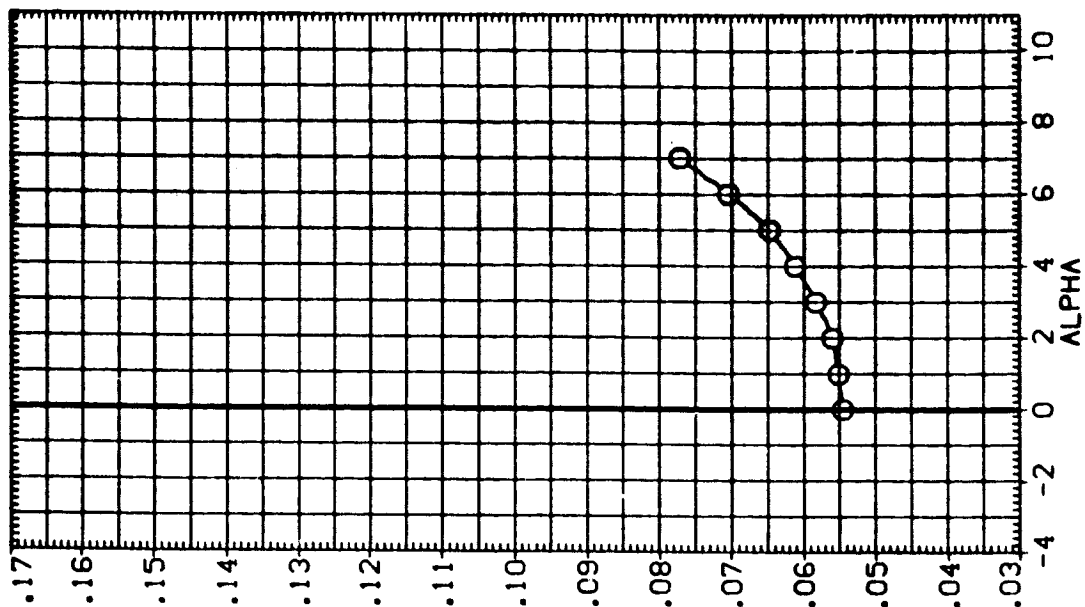
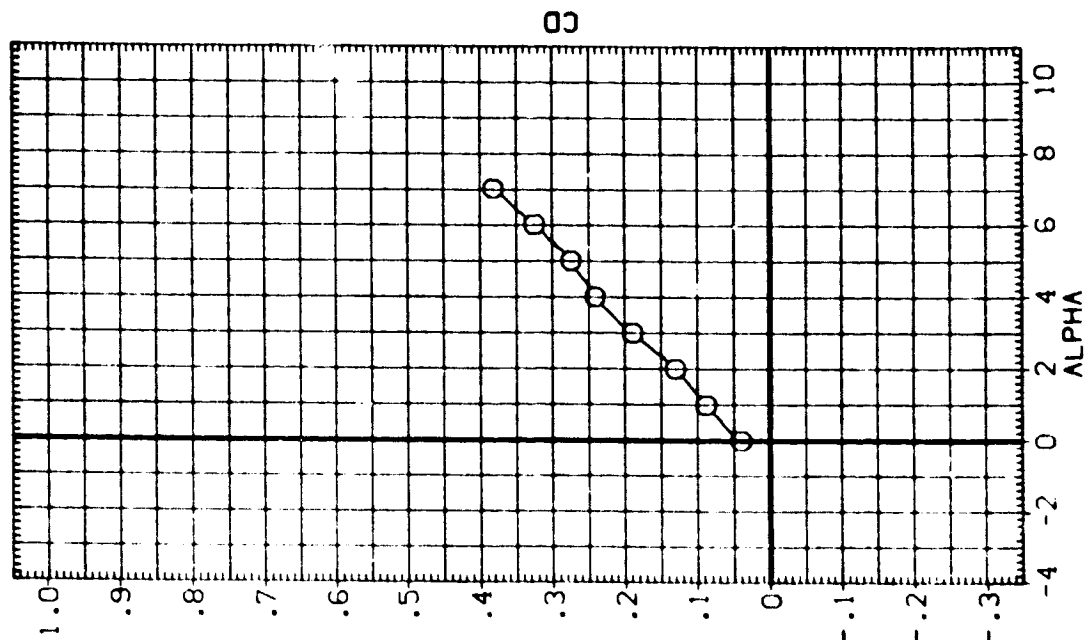


FIG.4 ORBITER ISOLATED AERO CHARACTERISTICS

(A)MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(BESAO1) ○ ARC14-080-1 CA23 045 (ORBITER ISOLATED)

BETA0 ELV-0 AIL-0 RUD-0
.000 5.000 .000

REFERENCE INFORMATION
SREF 2690.0000 50.FT.
LREF 474.8100 IN.
BREF 936.6800 IN.
XMRP 1105.0000 IN. X0
YMRP .0000 IN. Y0
ZMRP 375.0000 IN. Z0
SCALE .0125

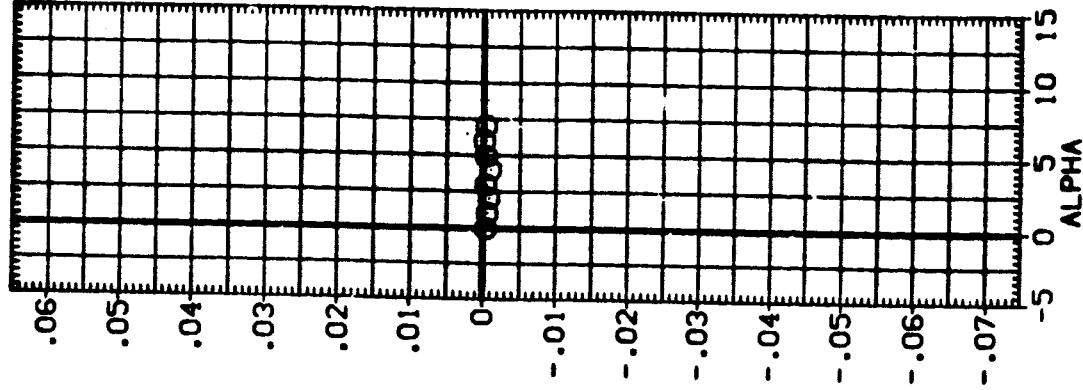
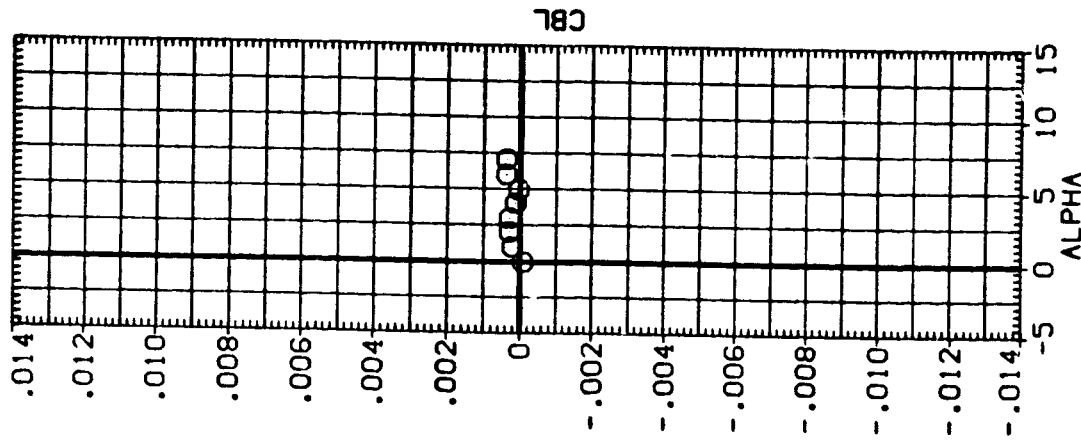
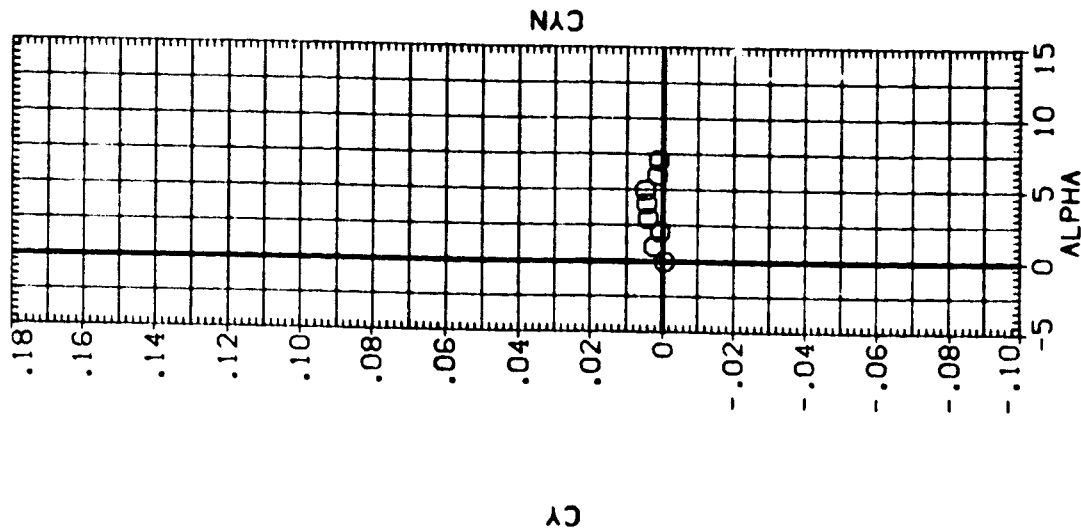


FIG.4 ORBITER ISOLATED AERO CHARACTERISTICS

(A)MACH = .60



REFERENCE INFORMATION

	SO.FT.
SREF	2690.0000
LREF	474.8100
BREF	936.6800
XTRP	1109.0000
YTRP	.0000
ZTRP	375.0000
SCALE	.0125

BETA0 ELV-0 AIL-0 RUO-0

BETA0	.000
ELV-0	.000
AIL-0	.000
RUO-0	.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(BE9A02) ○ ARC14-080-1 CA23 045 (ORBITER ISOLATED)

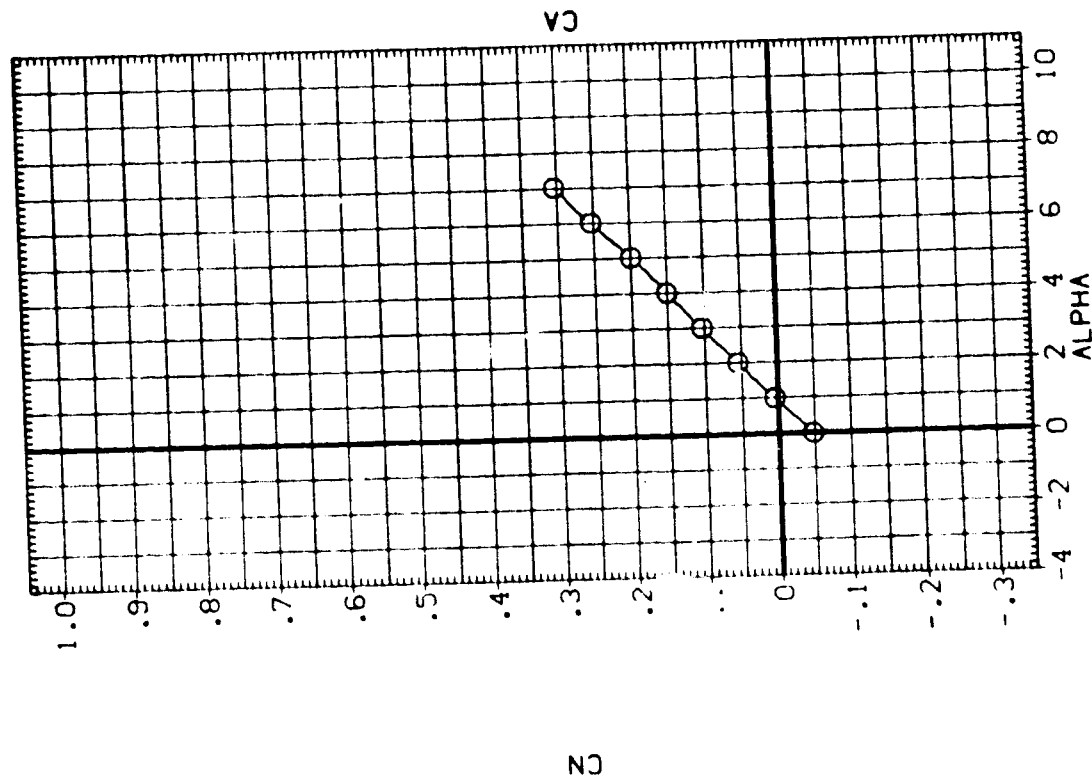
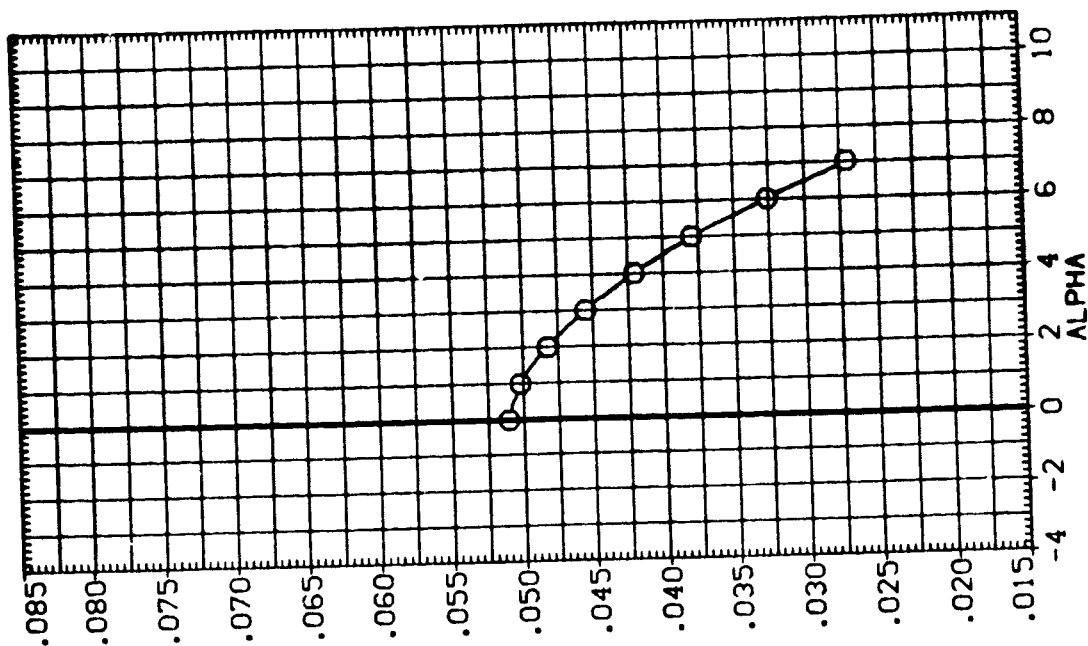


FIG.4 ORBITER ISOLATED AERO CHARACTERISTICS

(A)MACH = .60

DATA SET SYMBOL (BE9A02) ○ CONFIGURATION DESCRIPTION ARC14-080-1 CA23 OAS (ORBITER ISOLATED)

REFERENCE INFORMATION	
BETA0	.000
ELV-0	.000
AIL-0	.000
RUD-0	.000
SREF	2690.0000 SQ. FT. IN.
LREF	474.8100 IN.
BREF	936.6800 IN.
XMRP	1109.0000 IN. X0
YMRP	.0000 IN. Y0
ZMRP	375.0000 IN. Z0
SCALE	.0125

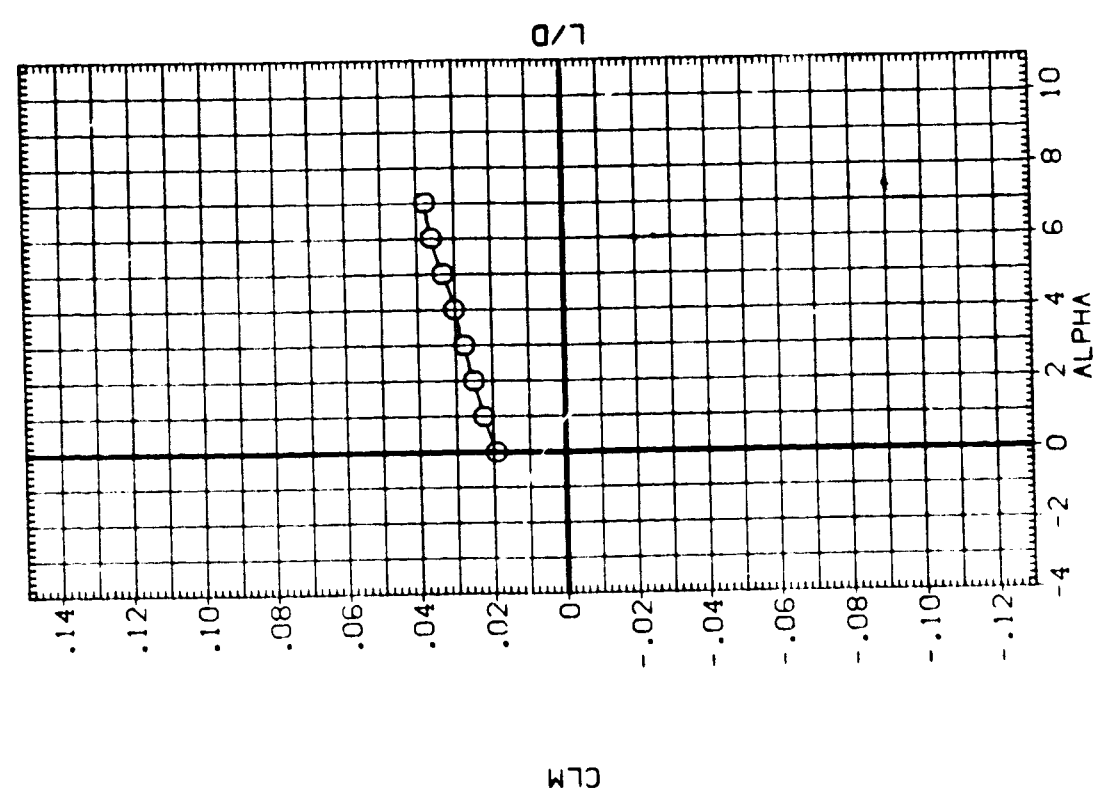
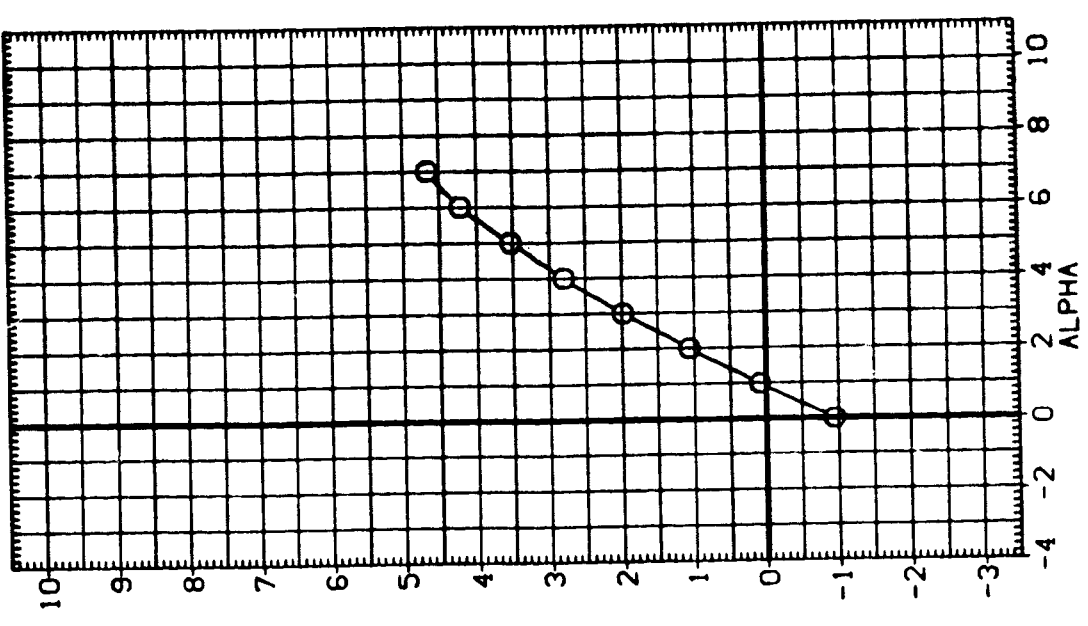


FIG.4 ORBITER ISOLATED AERO CHARACTERISTICS
 (MACH = .60)

DATA SET SYMBO: CONFIGURATION DESCRIPTION
(BESAO2) ○ ARC14-080-1 CA23 04S (ORBITER ISOLATED)

BETA0 ELV-0 AIL-0 RUO-0
.000 .000 .000 .000

REFERENCE INFORMATION
SREF 2690.0000 50.FT.
LREF 474.8100 IN.
BREF 936.6800 IN.
XPRP 1109.0000 IN. X0
YPRP .0000 IN. Y0
ZPRP 375.0000 IN. Z0
SCALE .0125

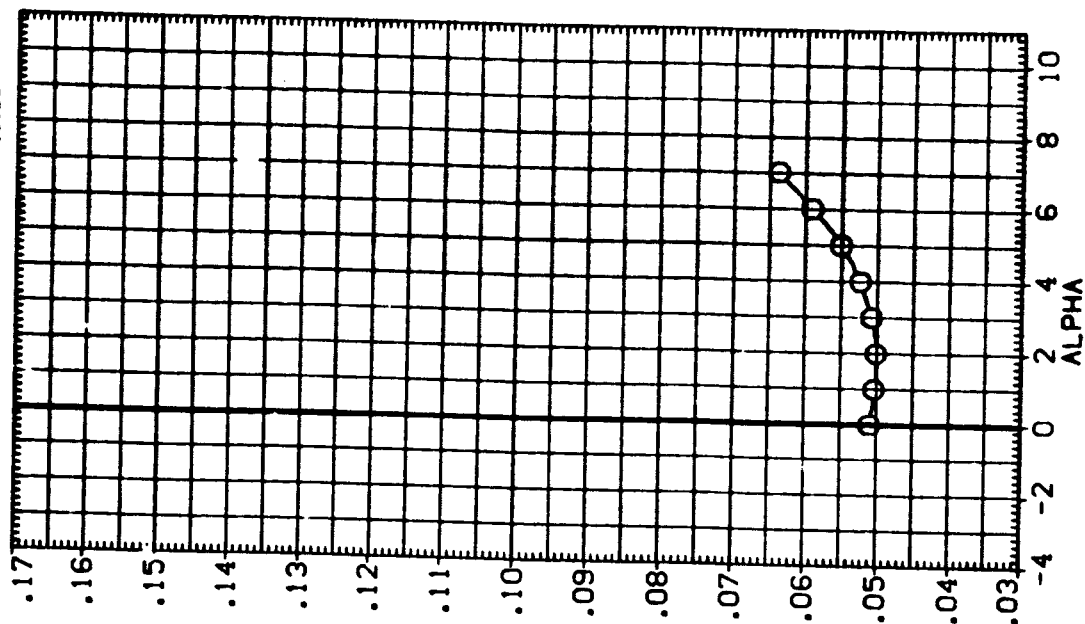
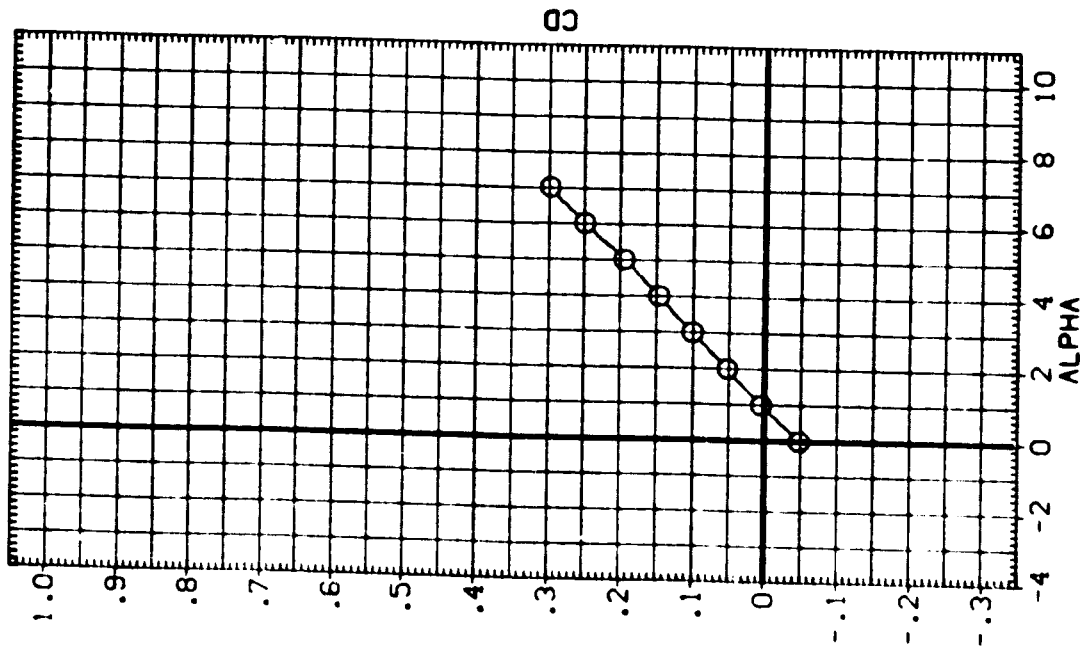


FIG.4 ORBITER ISOLATED AERO CHARACTERISTICS
(A) MACH = .60

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR

DATA SET SYMBOL: ○ ARC14-080-1 CA23 04S (ORBITER ISOLATED)

CONFIGURATION DESCRIPTION

BETA0 .000
AIL-0 .000
RUD-0 .000

REFERENCE INFORMATION
SREF 2630.0000 90.FT.
LREF 474.8100 IN.
BREF 936.6800 IN.
XMRP 1109.0000 IN.
YMRP 375.0000 IN.
ZMRP 0.0000 IN.
SCALE .0125

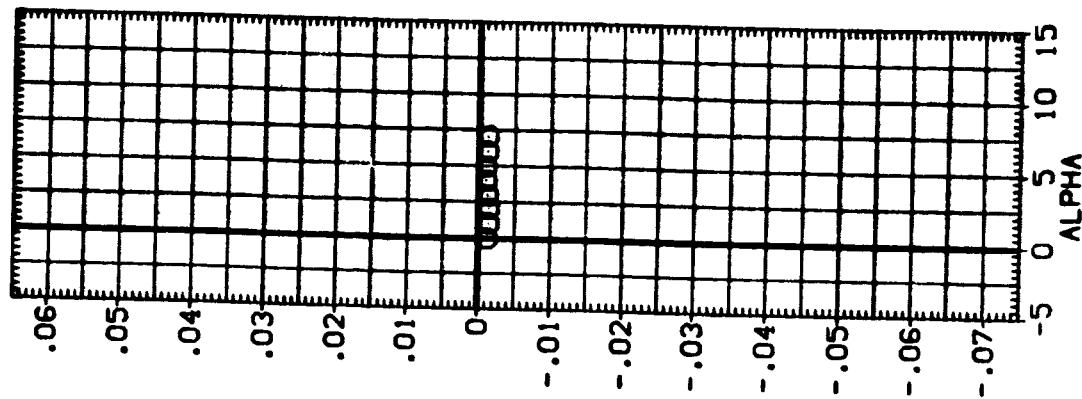
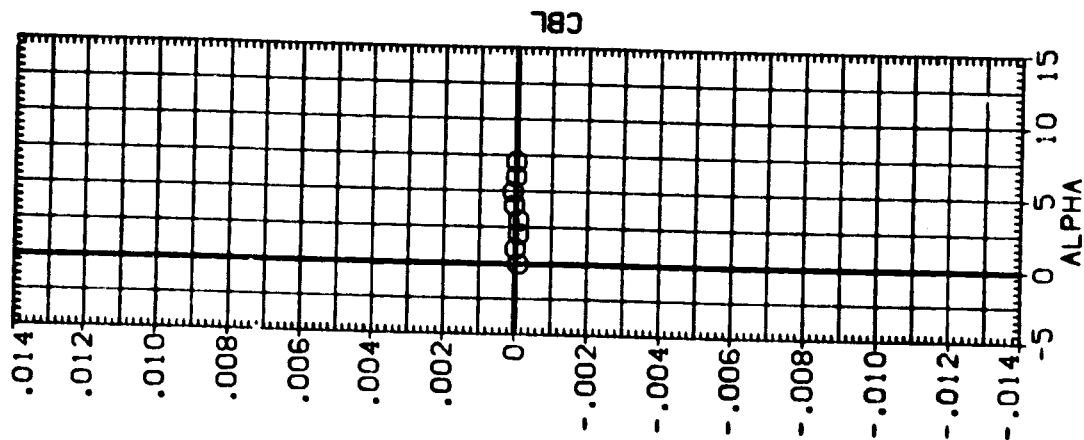
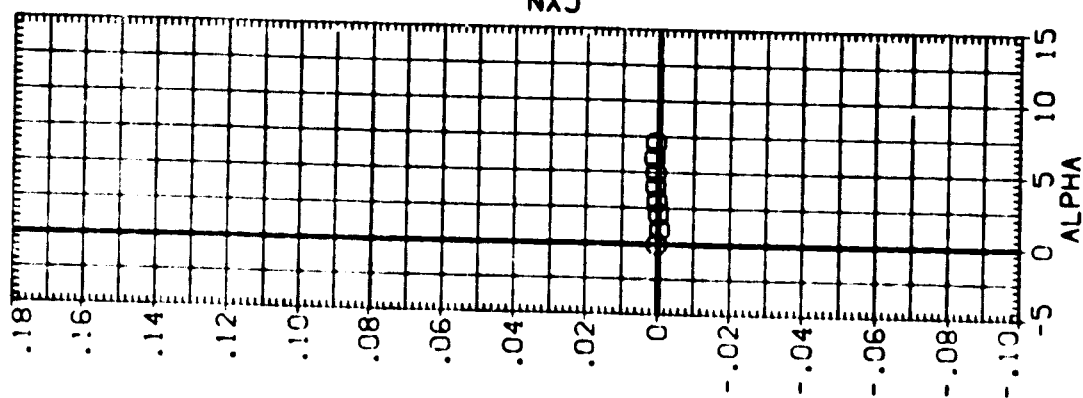


FIG.4 ORBITER ISOLATED AERO CHARACTERISTICS

(A)MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 .069A03 ○ ARC14-030-1 CA23 045 (ORBITER ISOLATED)

BETA0 ELV-0 AIL-0 RU0-0
 .000 5.000 .000 10.000

REFERENCE INFORMATION
 SREF 2690.0000 50.FT.
 LREF 474.8100 IN.
 BREF 935.6800 IN.
 XMRP 1109.0000 IN.
 YMRP .0000 IN.
 ZMRP 375.0000 IN.
 SCALE .0125

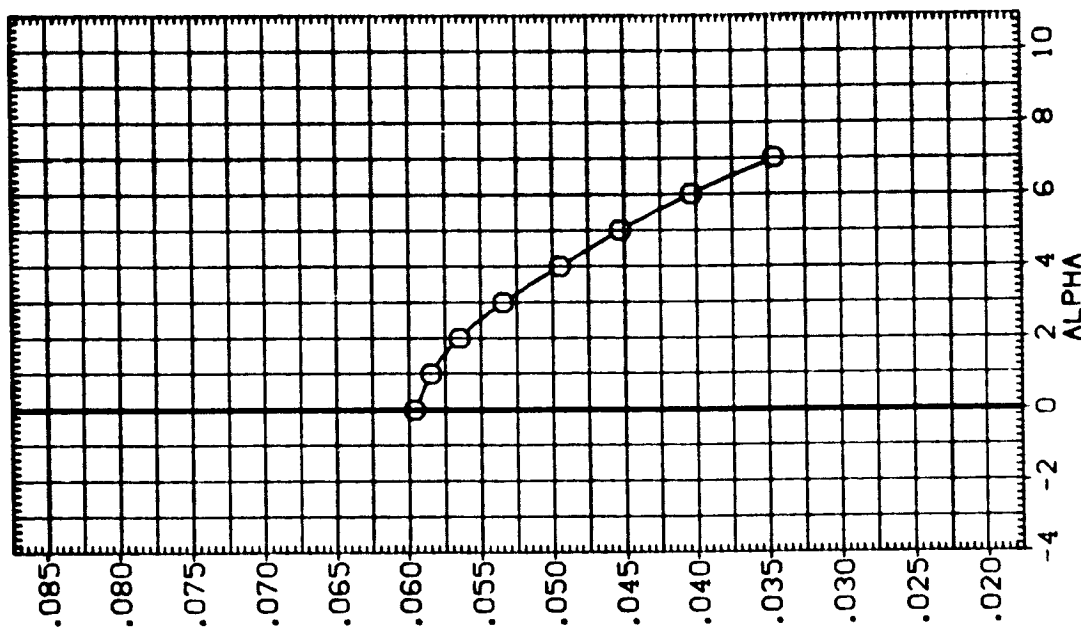
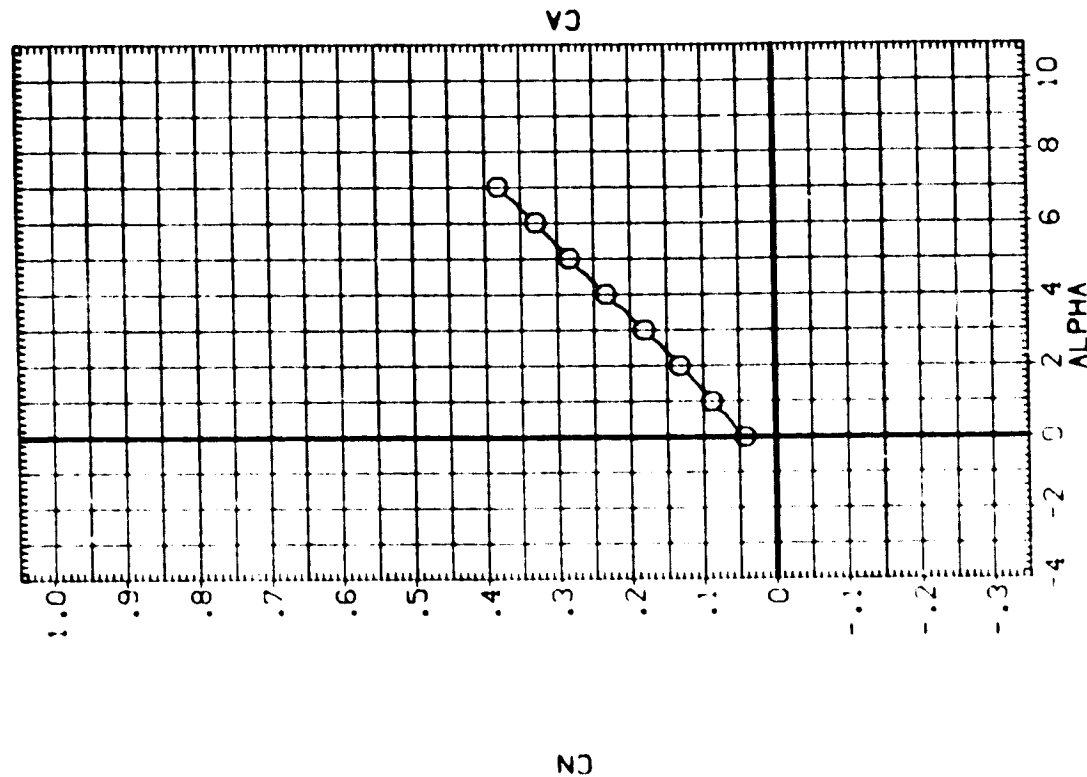


FIG.4 ORBITER ISOLATED AERO CHARACTERISTICS

(A) MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(BE9A03) ○ ARC14-080-1 CA23 04S (ORBITER ISOLATED)

BETA0 ELV-0 AIL-0 RU0-0
.000 5.000 .000 10.000

REFERENCE INFORMATION
SREF 2690.0000 SQ.FT.
LREF 474.8100 IN.
BREF 936.6800 IN.
XMRP 1109.0000 IN. 10
YMRP 375.0000 IN. 10
ZMRP .0125
SCALE

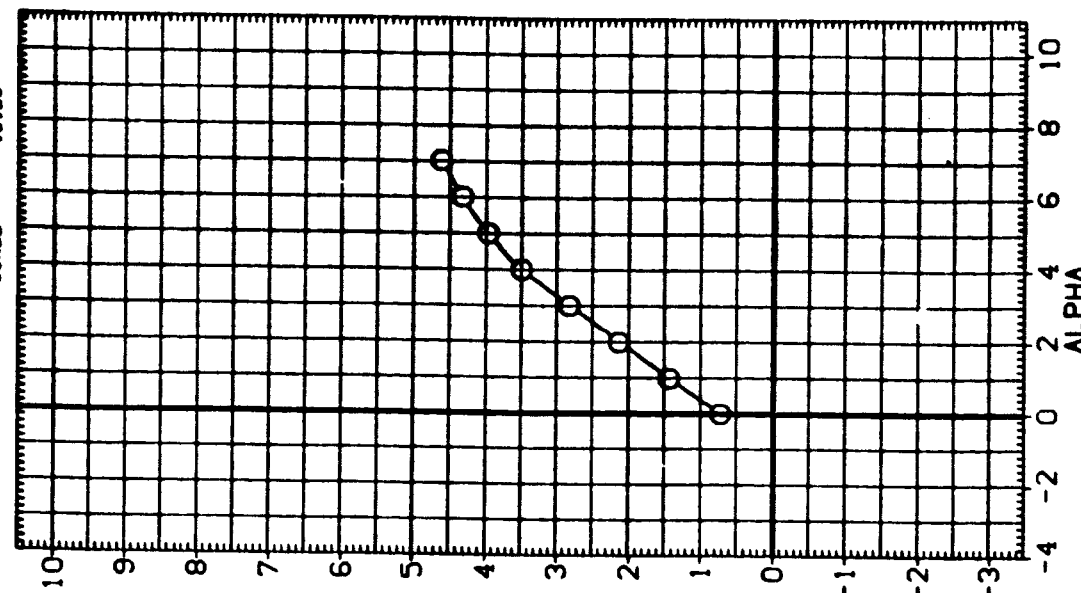
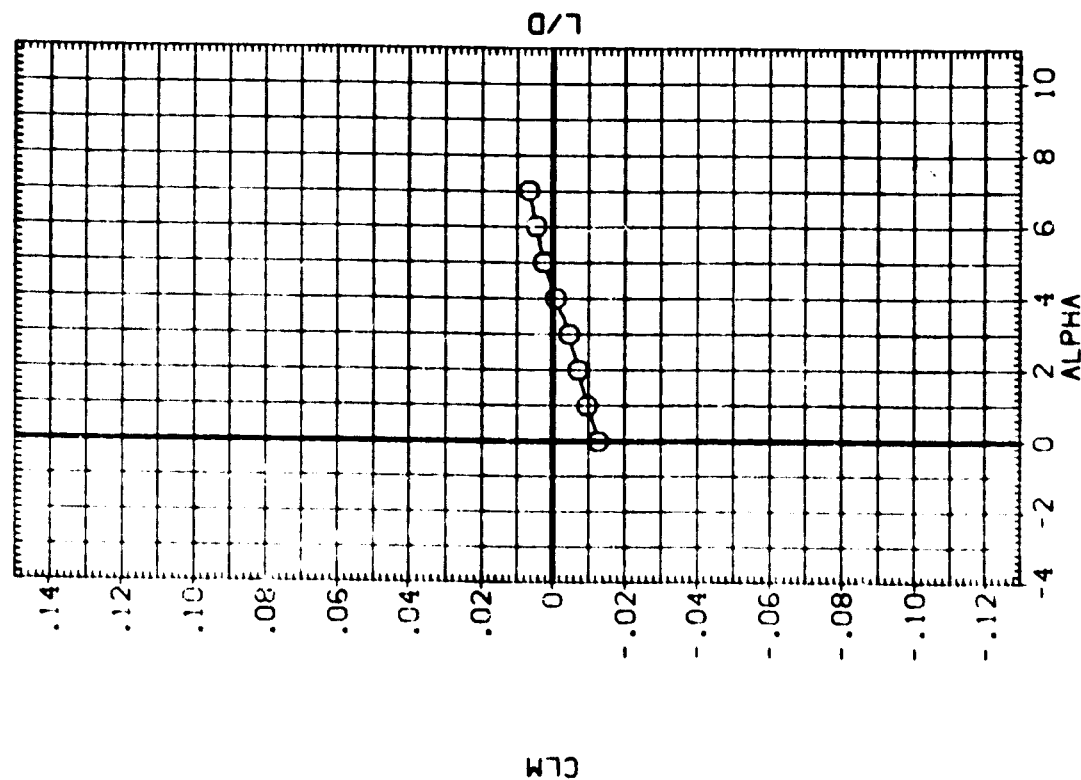


FIG.4 ORBITER ISOLATED AERO CHARACTERISTICS

(A)MACH = .60

DATA SET SYMBOL (BESAC3) ○ CONFIGURATION DESCRIPTION ARC14-080-1 CA23 045 (ORBITER ISOLATED)

BETA0 .000 ELV-0 5.000 AIL-0 .000 RU0-0 10.000

REFERENCE INFORMATION
SREF 2650.0000 SQ.FT.
LREF 474.8100 IN.
BREF 938.8800 IN.
XMRP 1109.0000 IN. X0
YMRP .0000 IN. Y0
ZMRP 375.0000 IN. Z0
SCALE .0125

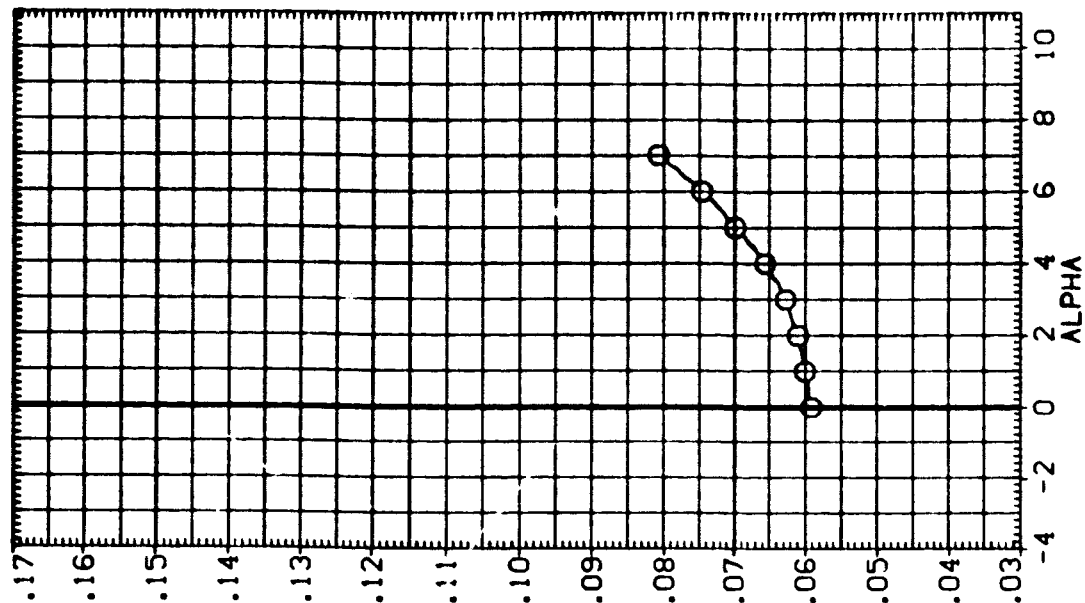
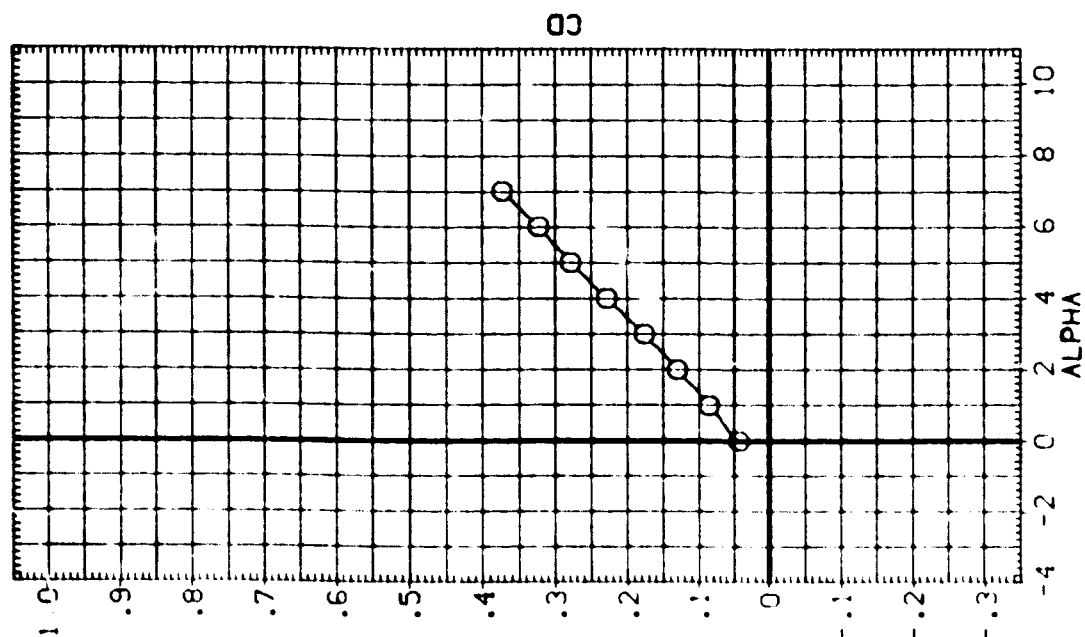


FIG.4 ORBITER ISOLATED AERO CHARACTERISTICS

(MACH = .60)

DATA SET SYMBOL (B9AC3) ○

CONFIGURATION DESCRIPTION ARC14-080-1 CA23 045 (ORBITER ISOLATED)

REFERENCE INFORMATION

REF	2690.0000	50.FT.
SREF	474.8100	IN.
LREF	936.6800	IN.
BREF	1109.0000	IN. X0
YMRP	0.0000	IN. Y0
ZMRP	375.0000	IN. Z0
SCALE	.0125	

BETA0 ELV-0 AIL-0 RU0-0

.000 5.000 10.000

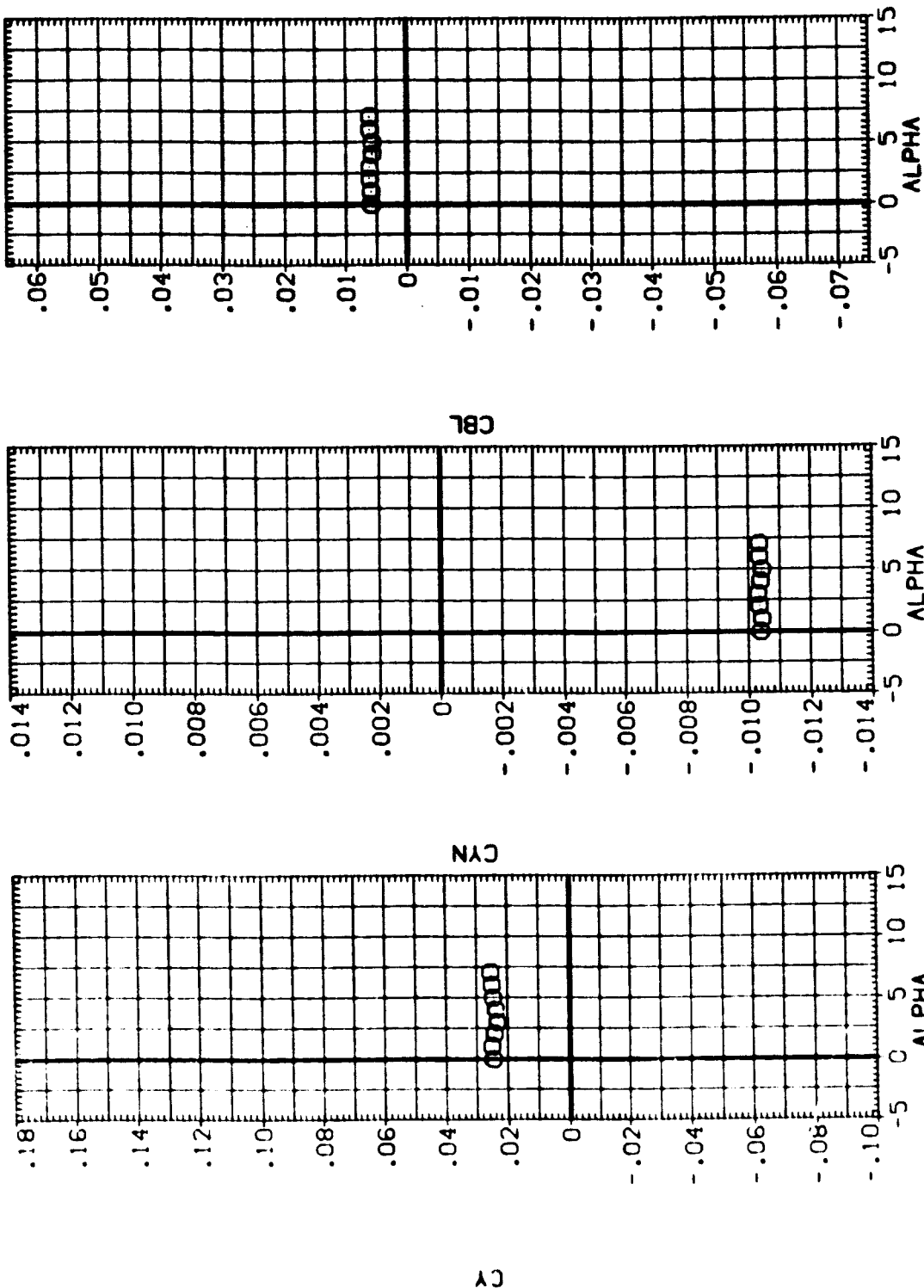


FIG.4 ORBITER ISOLATED AERO CHARACTERISTICS

(A)MACH = .60

DATA SET SYMBOL: (BESA04) \bigcirc CONFIGURATION DESCRIPTION: ARC14-080-1 CA23 OAS (ORBITTER ISOLATED)

BETAB: .000 ELV-0: 5.000 AIL-0: .000 RUO-0: .000

REFERENCE INFORMATION:
 SREF: 2890.0000 IN. 90.FT.
 LREF: 474.8100 IN.
 BRREF: 836.6000 IN. MB
 XMRP: 1109.0000 IN. Y0
 YMRP: .0000 IN. Z0
 ZMRP: 375.0000 IN. Z0
 SCALE: .0125

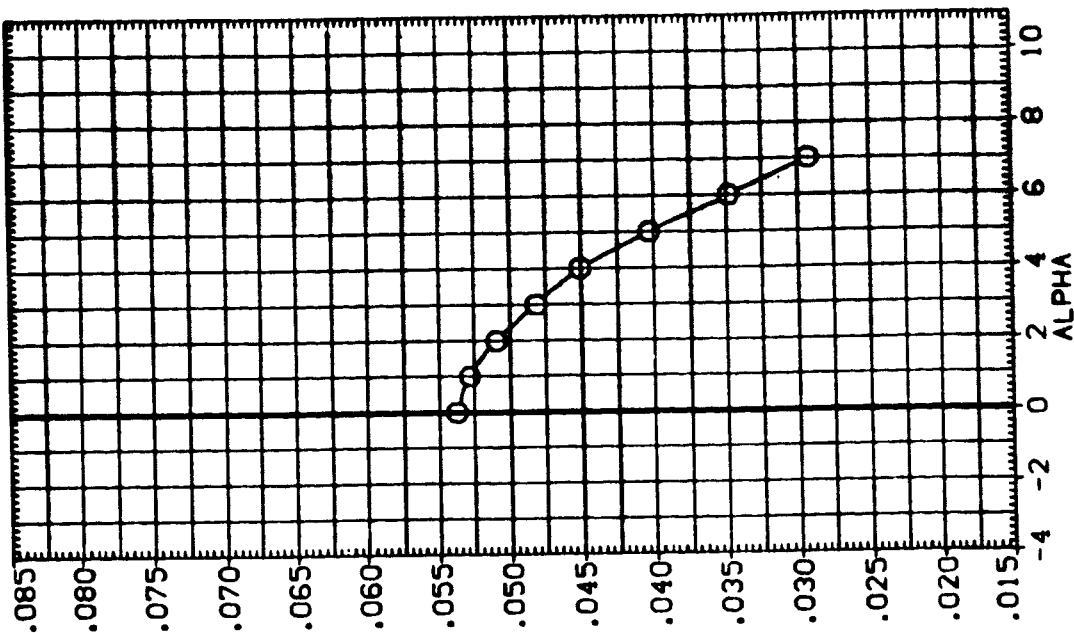
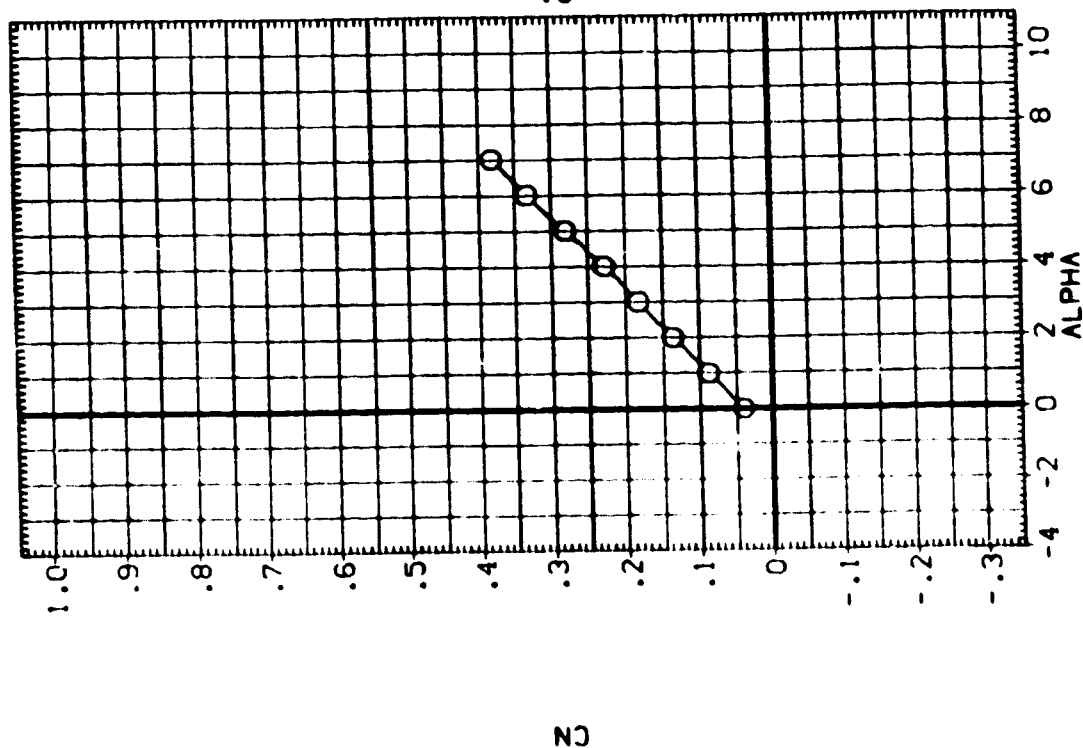


FIG.4 ORBITTER ISOLATED AERO CHARACTERISTICS

(A)MACH = .60

DATA SET SYMBOL: (9E3A24) \odot CONFIGURATION DESCRIPTION: ARC14-080-1 CA23 04S (ORBITTER ISOLATED)

BETA0 .000 ELV-0 5.000 AIL-0 .000 RUO-0 .000

REFERENCE INFORMATION
 SREF 2890.0000 50.FT.
 LREF 474.8100 IN.
 BREF 936.6800 IN.
 XMRP 1109.0000 IN. X0
 YMRP .0000 IN. Y0
 ZMRP 375.0000 IN. Z0
 SCALE .0125

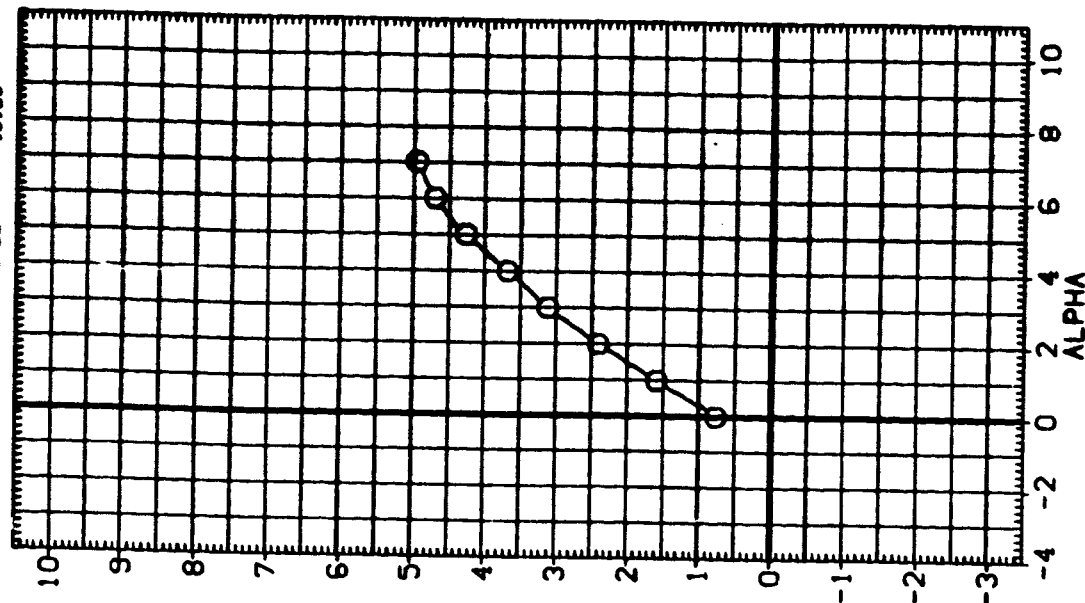
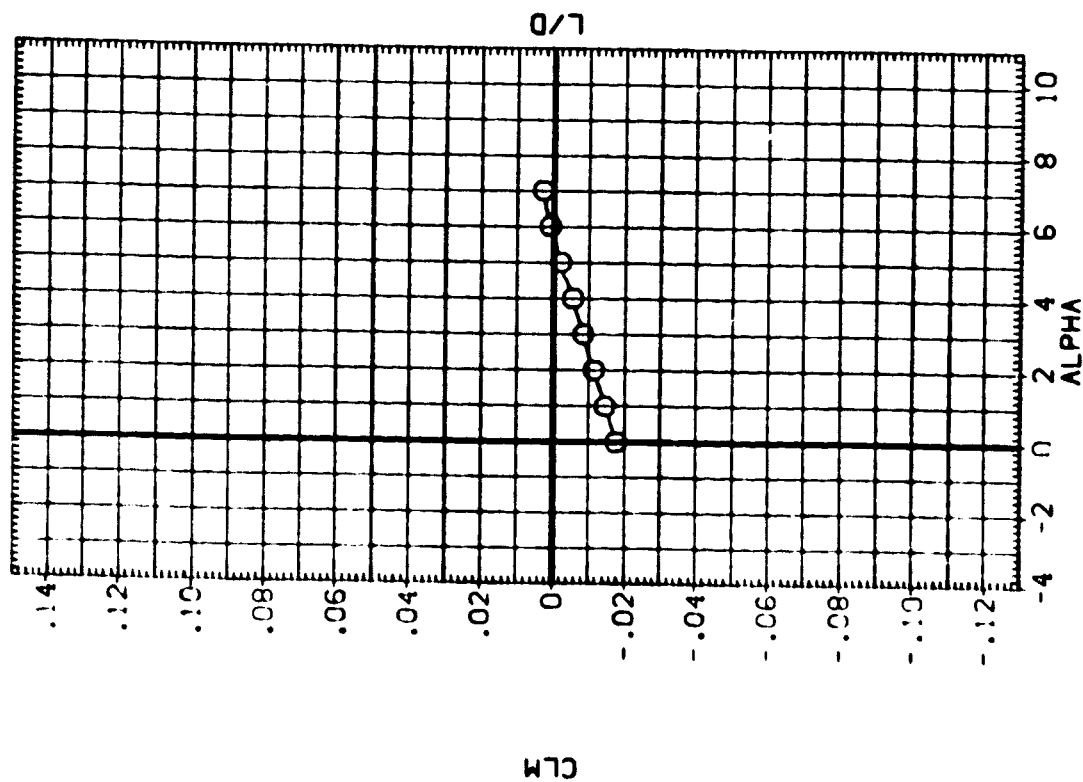


FIG.4 ORBITTER ISOLATED AERO CHARACTERISTICS

(A)MACH = .60

DATA SET SYMBOL (BE9A04) ○ CONFIGURATION DESCRIPTION ARC14-080-1 CA23 04S (ORBITTER ISOLATED)

BETA0 .000 ELV-0 5.000 AIL-0 .000 RU0-0 .000

REFERENCE INFORMATION
 SREF 2630.0000 50.FT.
 LREF 474.8100 IN.
 BREF 938.8800 IN.
 XMRP 1108.0000 IN. X0
 YMRP .0000 IN. Y0
 ZMRP 375.0000 IN. Z0
 SCALE .0125

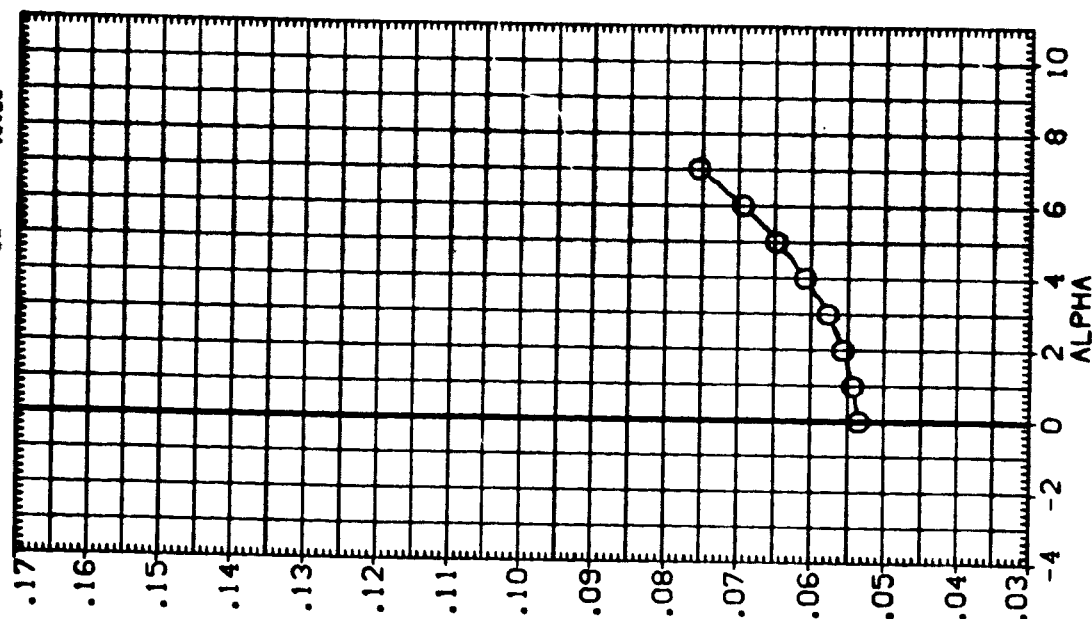
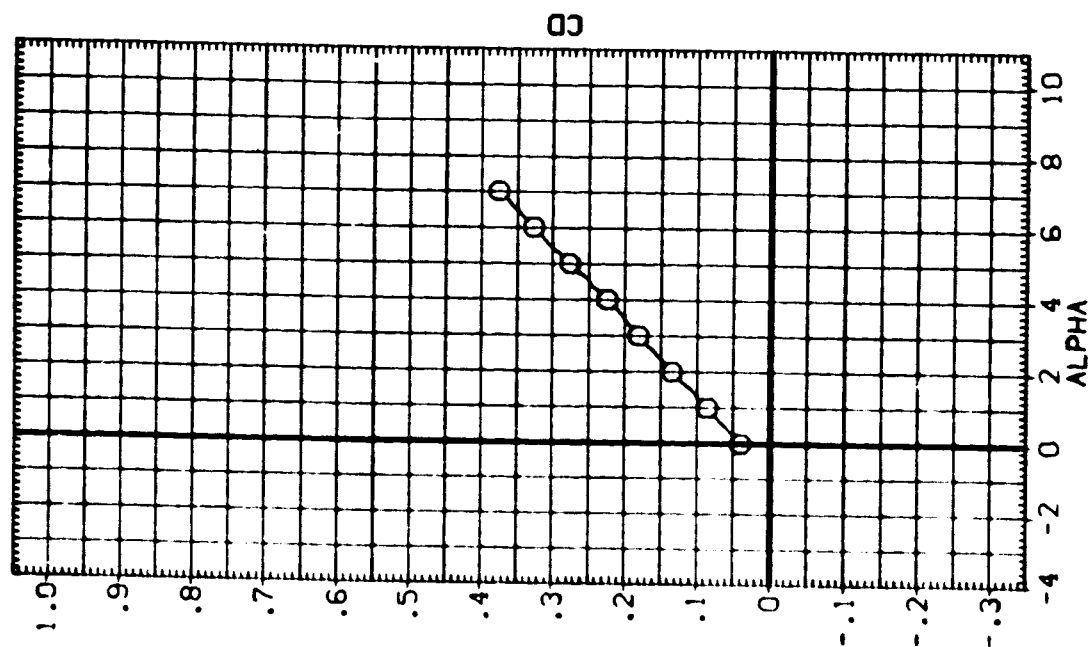


FIG.4 ORBITTER ISOLATED AERO CHARACTERISTICS

(A)MACH = .60

DATA SET SYMBOL (BESAC) \odot CONFIGURATION DESCRIPTION ARC14-050-1 CA23 045 (ORBITER ISOLATED)

BETA0 .000 ELV-0 5.000 AIL-0 .000 RUD-0 .000

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 474.9100 IN.
 BREF 936.6800 IN.
 XMRP 1109.0000 IN.
 YMRP .0000 IN.
 ZMRP 375.0000 IN.
 SCALE .0125

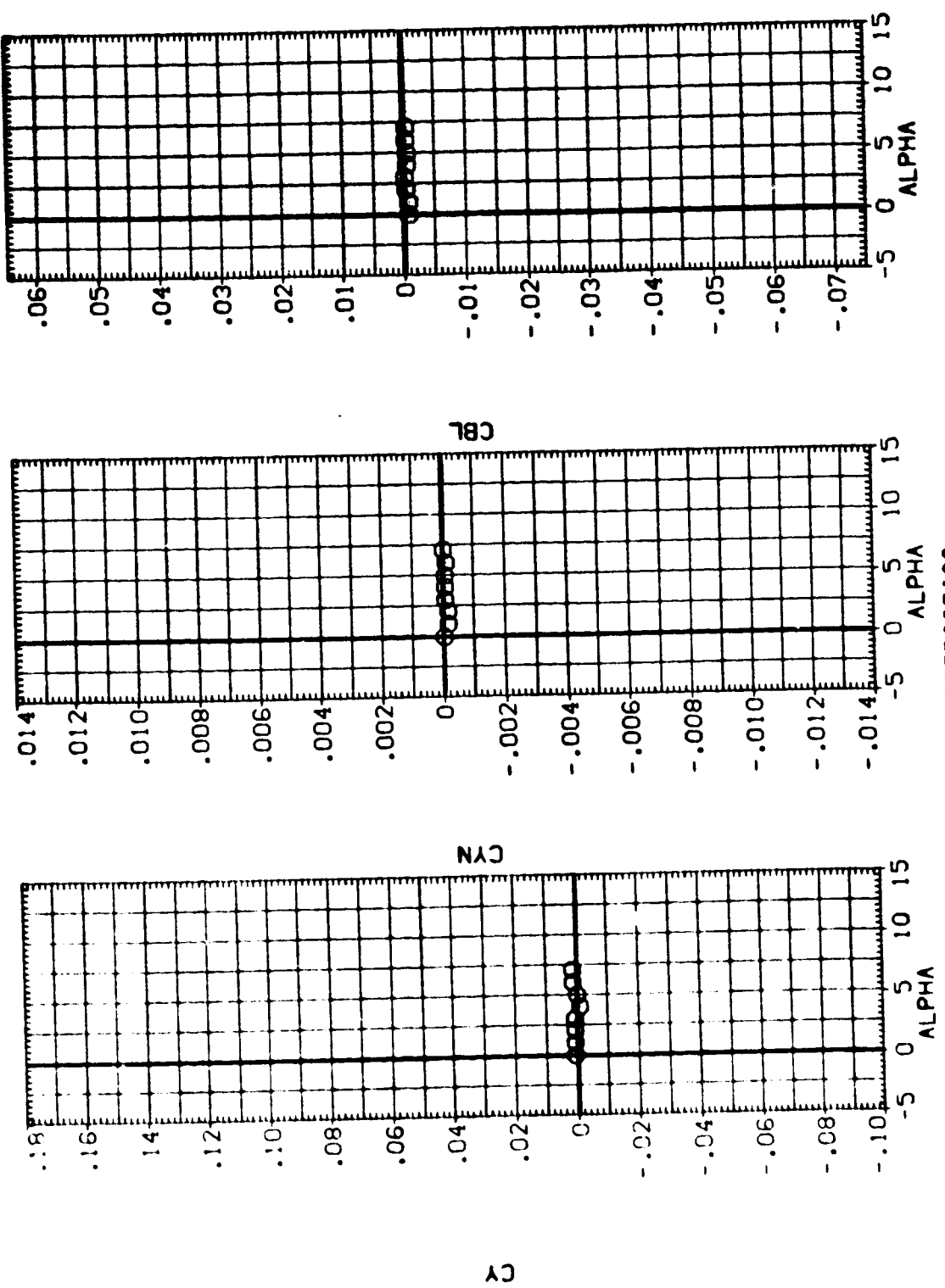


FIG.4 ORBITER ISOLATED AERO CHARACTERISTICS

(A)MACH = .60



DATA SET SYMBOL (BES005) ○ CONFIGURATION DESCRIPTION ARC14-080-1 CA23 045 (ORBITER ISOLATED)

BETA0 .000 ELV-0 10.000 AIL-0 .000 RU0-0 .000

REFERENCE INFORMATION

SREF	2690.0000	50.FT.
LREF	474.8100	IN.
BREF	935.6800	IN.
XMRP	1109.0000	IN. Y0
YMRP	375.0000	IN. Z0
ZMRP	375.0000	IN. Z0
SCALE	.0125	

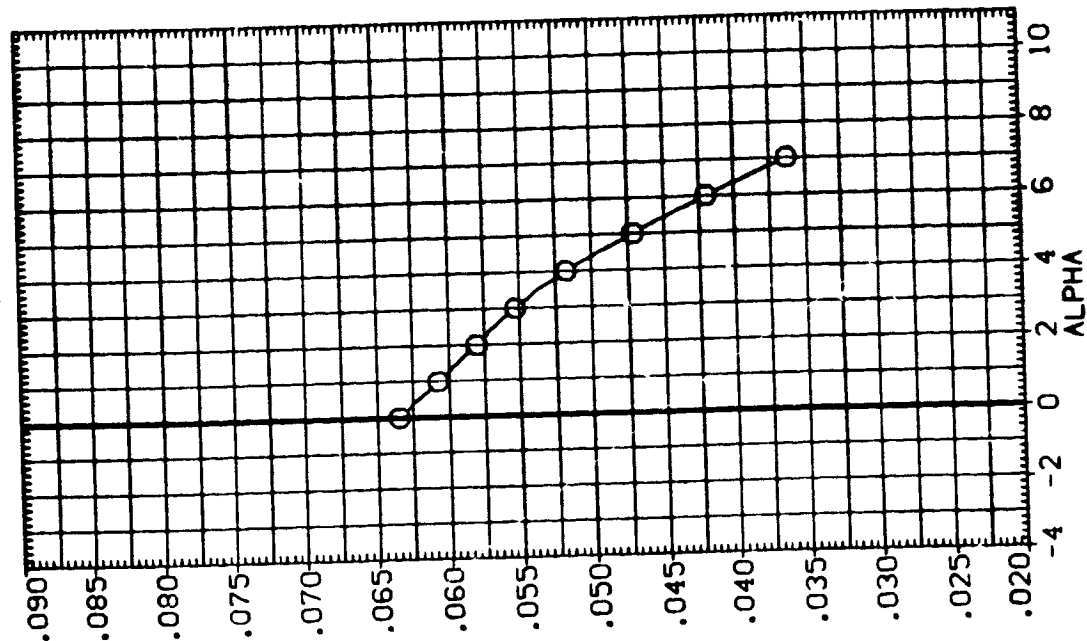
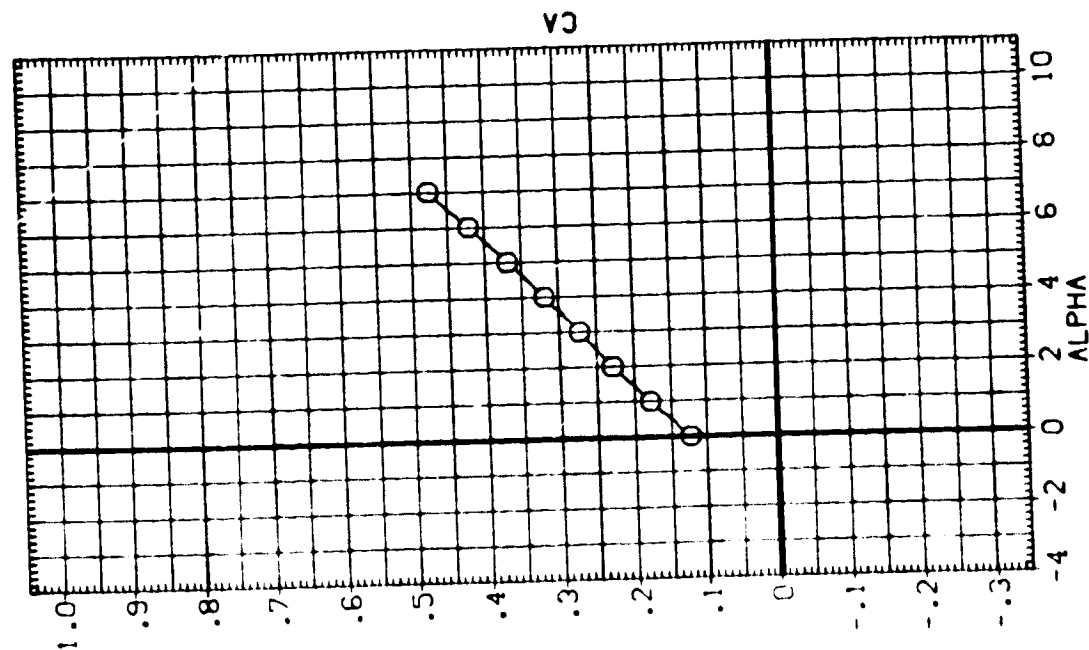


FIG.4 ORBITER ISOLATED AERO CHARACTERISTICS

(A) MACH = .60

DATA SET SYMBOL: ORBITER ISOLATED
 (BEGINS) ARC14 080-1 CA23 045 (ORBITER ISOLATED)

BETA0 .000
 ELV-0 10.000
 AIL-0 .000
 RUJ-0 .000

REFERENCE INFORMATION
 SREF 2890.0000 SO.FT.
 LREF 474.8100 IN.
 BREF 926.6800 IN.
 YMRP 1109.0000 IN. Y0
 ZMRP 375.0000 IN. Z0
 SCALE .0125

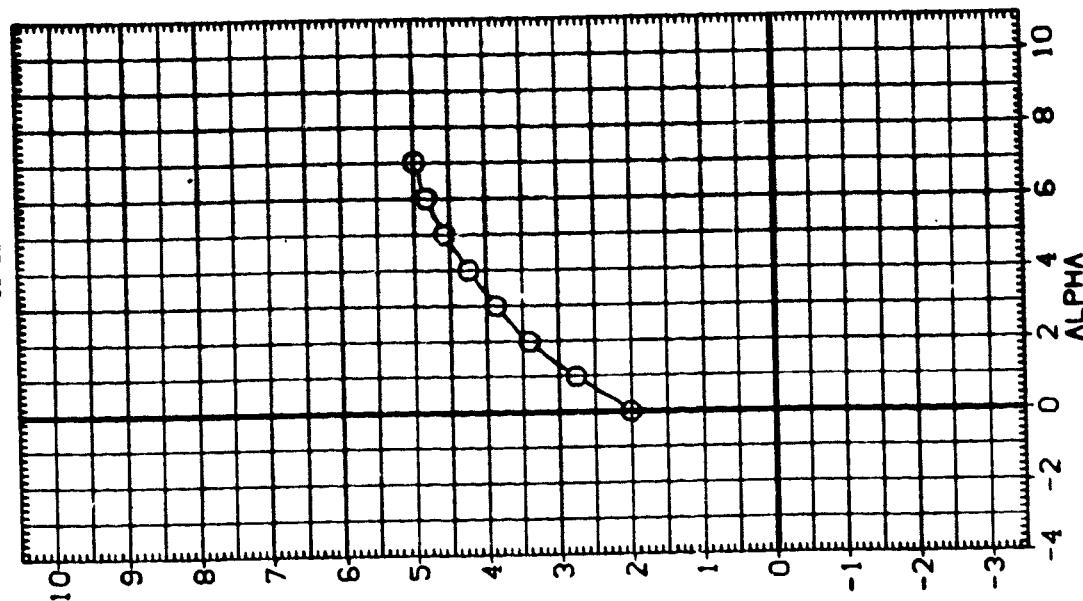
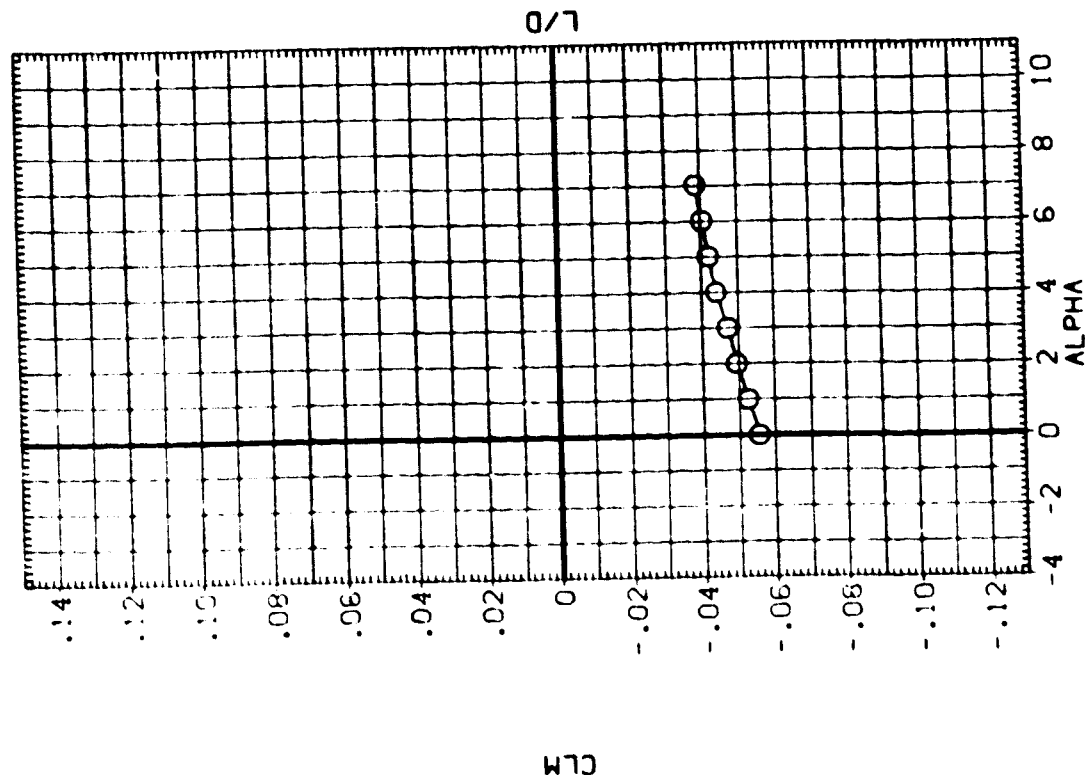


FIG.4 ORBITER ISOLATED AERO CHARACTERISTICS

(A)MACH = .60



DATA SET SYMBOL (B69A05) ○ CONFIGURATION DESCRIPTION ARC14-080-1 CA23 04S (ORBITER ISOLATED)

BETA0 ELV-0 AIL-0 RU0-0
.000 10.000 .000

REFERENCE INFORMATION
SREF 2650.0000 SQ.FT.
LREF 474.8100 IN.
BREF 936.6800 IN.
XMRP 1109.0000 IN. 10
YMRP .0000 IN. 10
ZMRP 375.0000 IN. 20
SCALE .0125

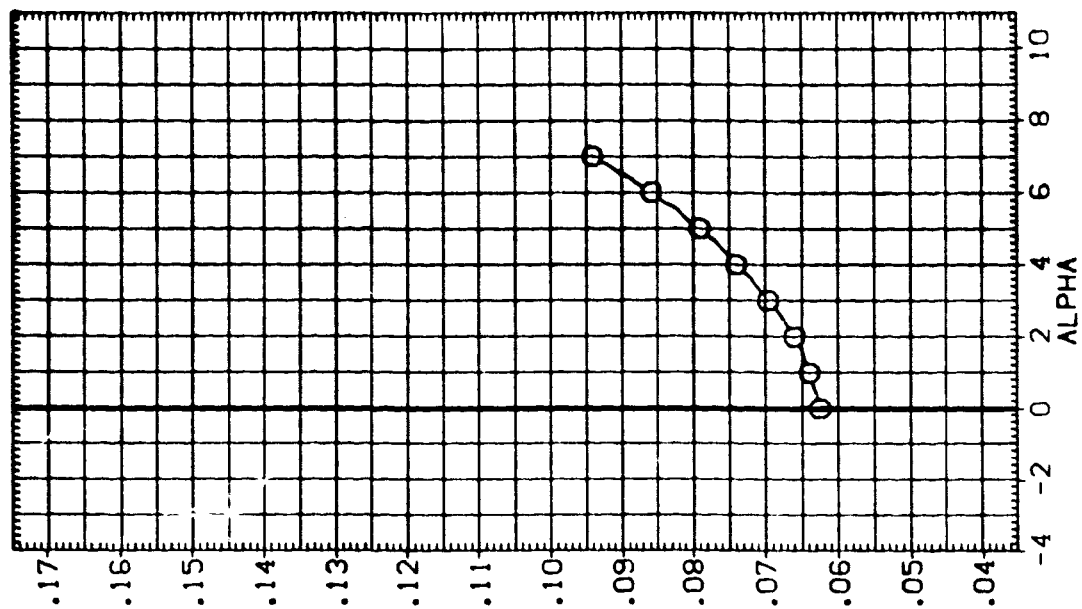
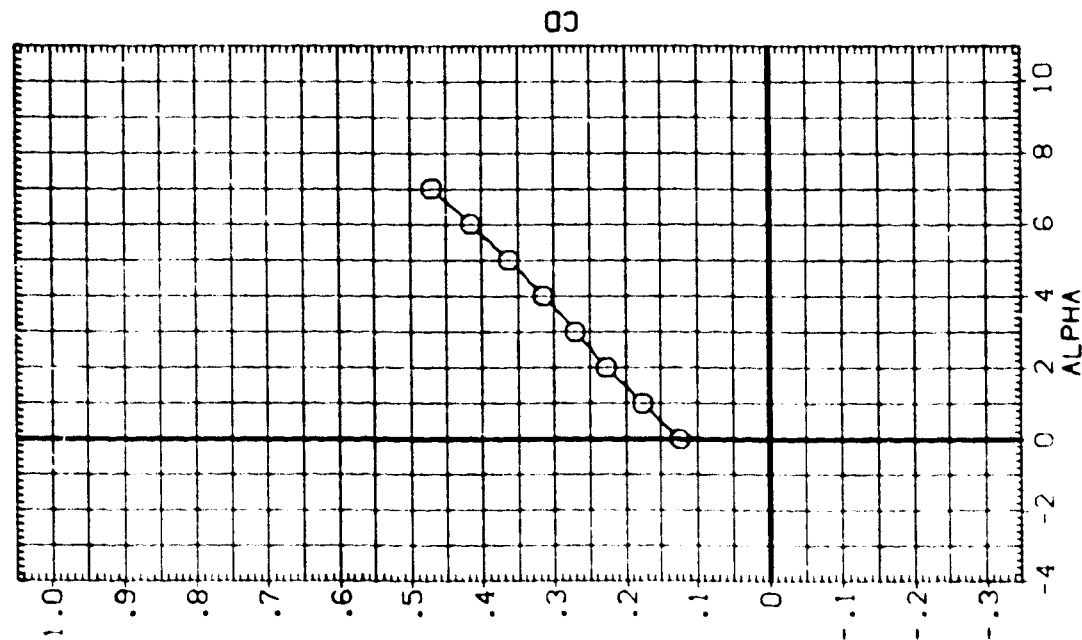


FIG.4 ORBITER ISOLATED AERO CHARACTERISTICS

(A)MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION REFERENCE INFORMATION

(9E9A35) ○ ARC14-080-1 CA23 OAS (ORBITTER ISOLATED)

RUO-0	AIL-0	ELV-0	BETA0	ELV-0	AIL-0	RUO-0	SREF	2630.0000	50.FT.
		10.000	.000	10.000	.000		LREF	474.8100	IN.
							BREF	936.6800	IN.
							YMRP	1109.0000	IN.
							ZMRP	375.0000	IN.
							SCALE	.0125	IN.

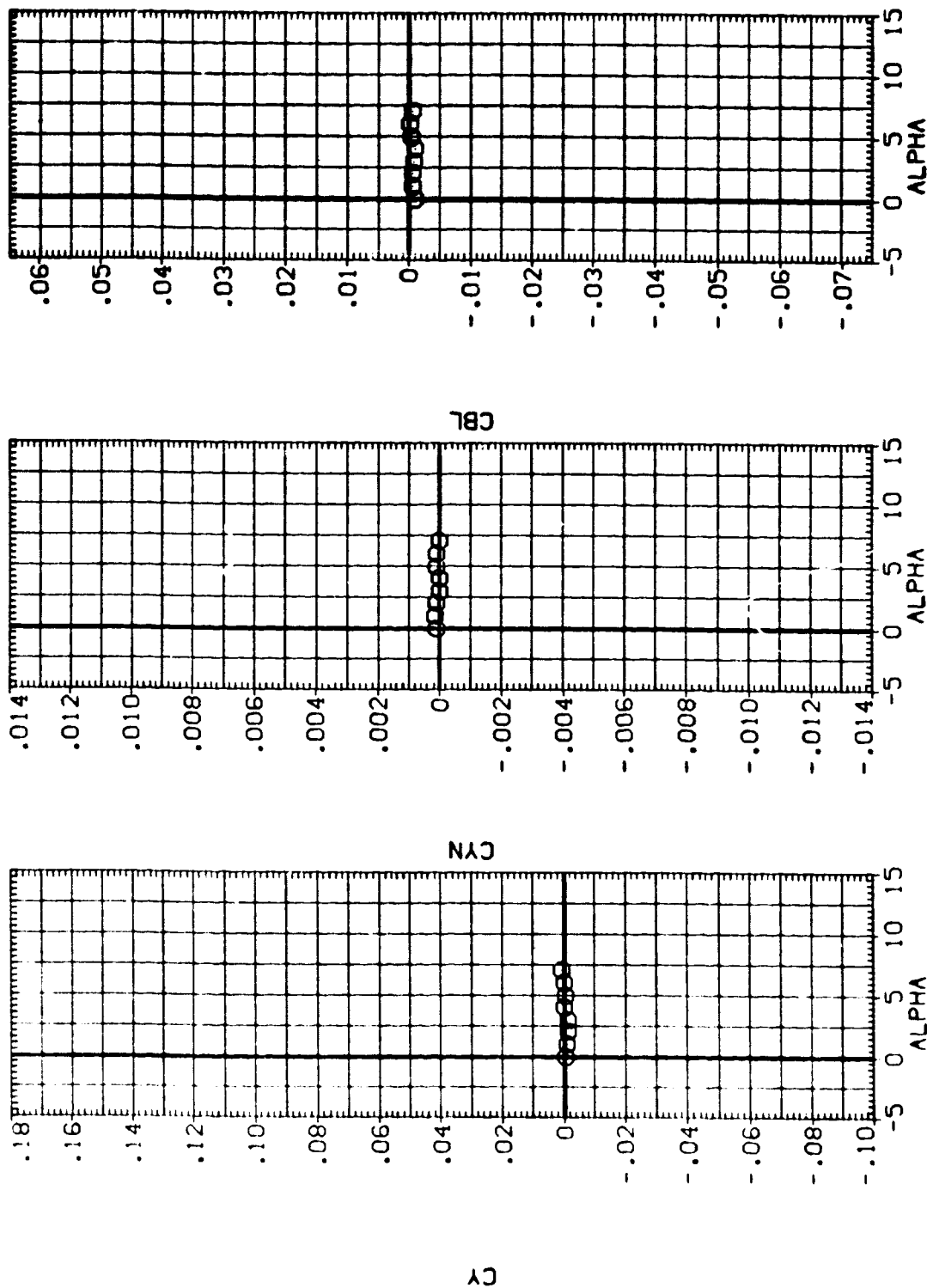


FIG.4 ORBITTER ISOLATED AERO CHARACTERISTICS

(A)MACH = .60



DATA SET SYMBOL (8E9A06) ○ CONFIGURATION DESCRIPTION ARC14-080-1 CA23 D4S (ORBITER ISOLATED)

BETA0 .000 ELV-0 5.000 AIL-0 -10.000 RUO-0 .000
 REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 474.8100 IN.
 BREF 936.6800 IN.
 XMRP 1109.0000 IN. 10
 YMRP .0000 IN. 10
 ZMRP 375.0000 IN. 20
 SCALE .0125

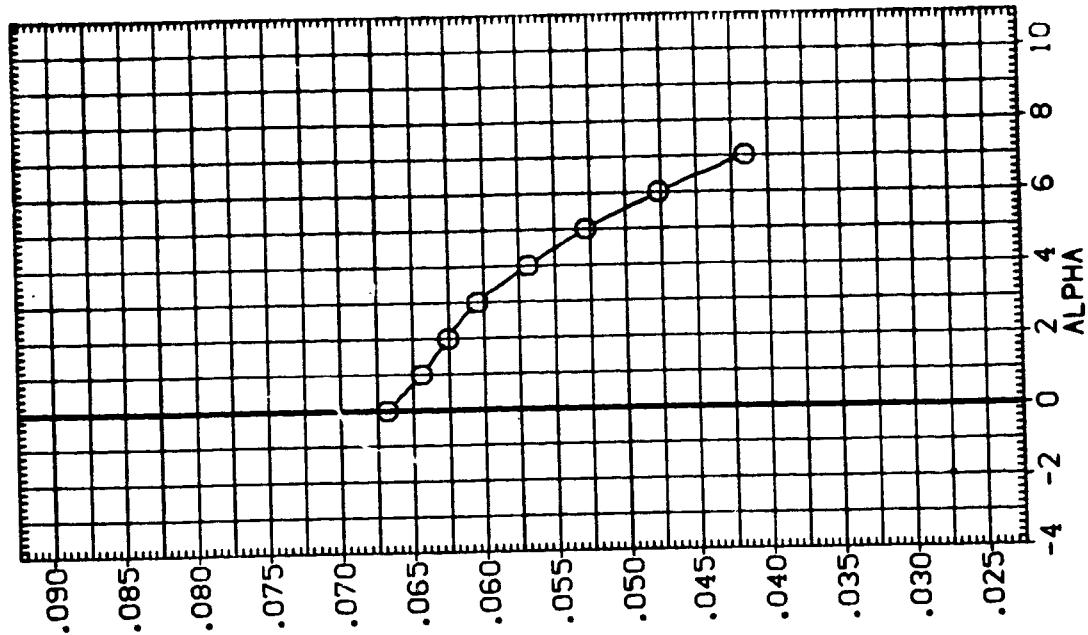
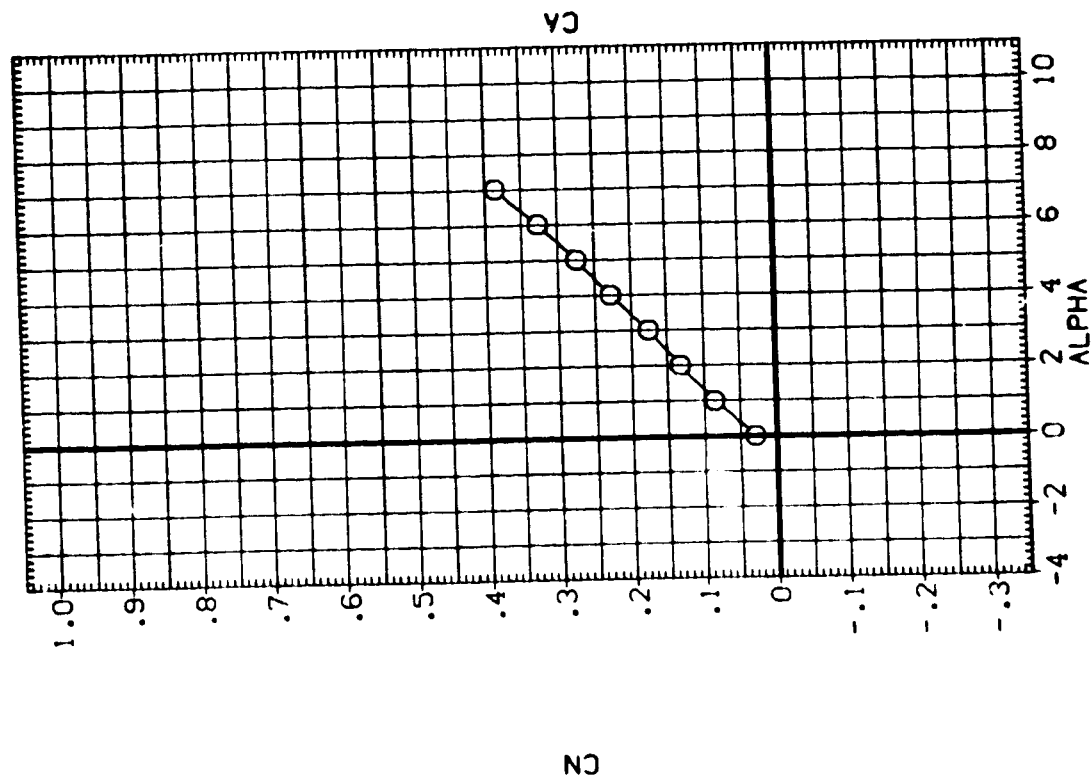


FIG.4 ORBITER ISOLATED AERO CHARACTERISTICS

(M)MACH = .60

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

DATA SET SYMBOL (BESAC) ○ ARC14-080-1 CA23 GAS (ORBITER ISOLATED)

BETA0 .000 ELV-0 5.000 AVL-0 -10.000 RUO-0 .000

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 474.8100 IN.
 BREF 936.6800 IN.
 XMRP 1109.0000 IN. X0
 YMRP .0000 IN. Y0
 ZMRP 375.0000 IN. Z0
 SCALE .0125

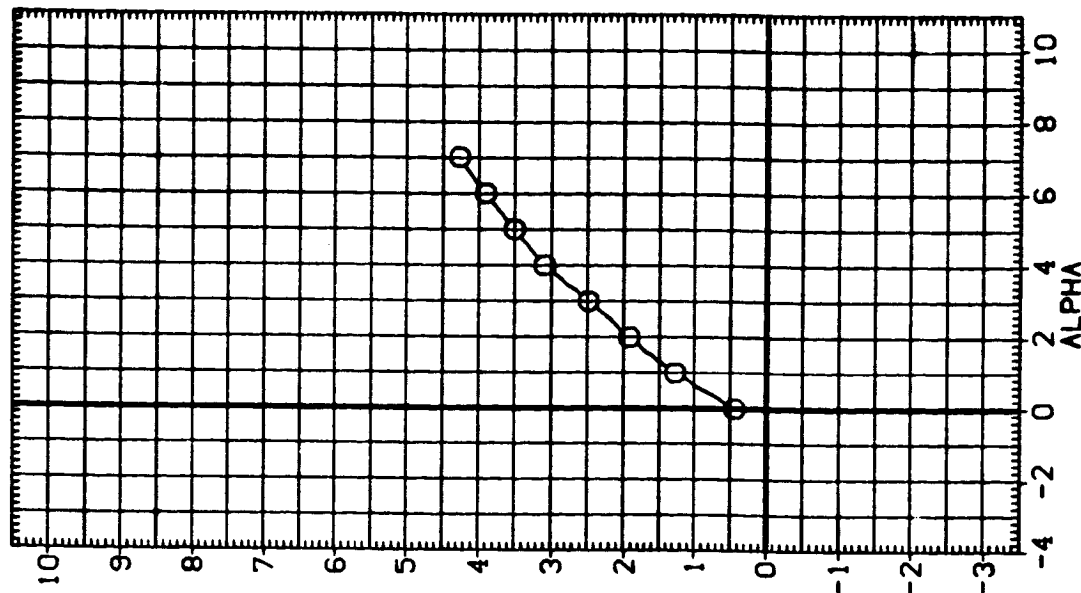
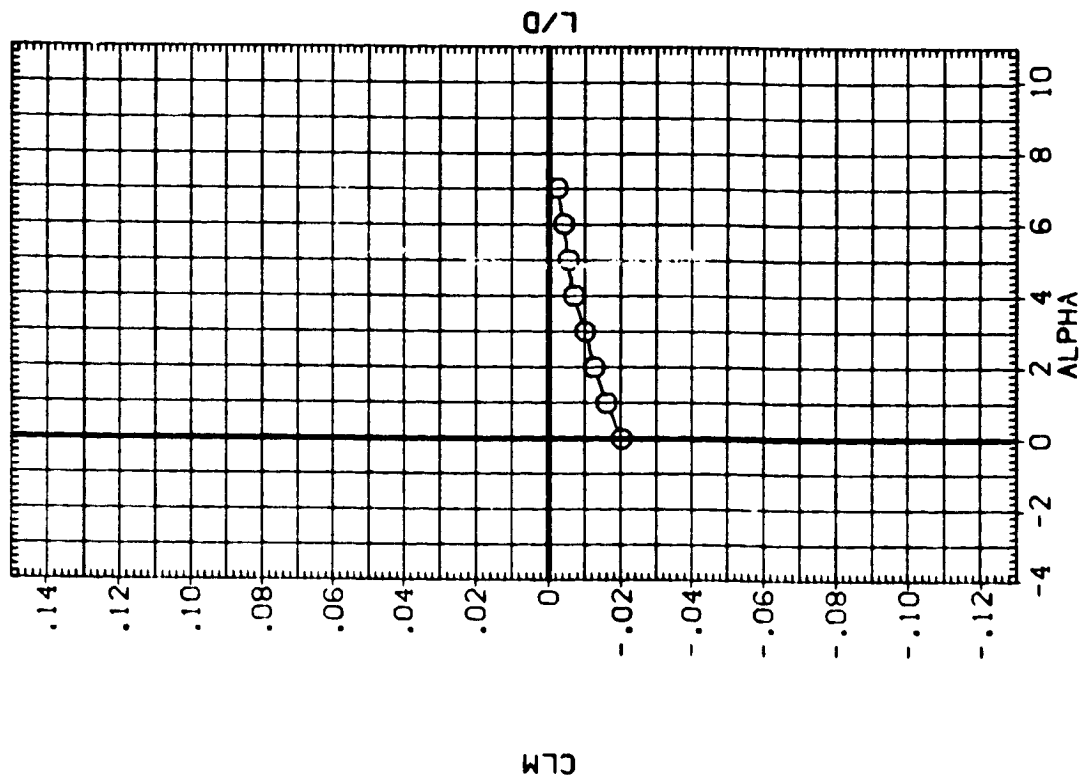


FIG.4 ORBITER ISOLATED AERO CHARACTERISTICS

(A)MACH = .60



DATA SET SYMBOL (BEGA06) ○ CONFIGURATION DESCRIPTION ARC14-080-1 CA23 045 (ORBITER ISOLATED)

BETA0 .000 ELV-0 5.000 AIL-0 -10.000 RUD-0 .000

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 474.8100 IN.
 BREF 936.6800 IN. X0
 XMRP 1109.0000 IN. Y0
 YMRP .0000 IN. Z0
 ZMRP 375.0000 IN. Z0
 SCALE .0125

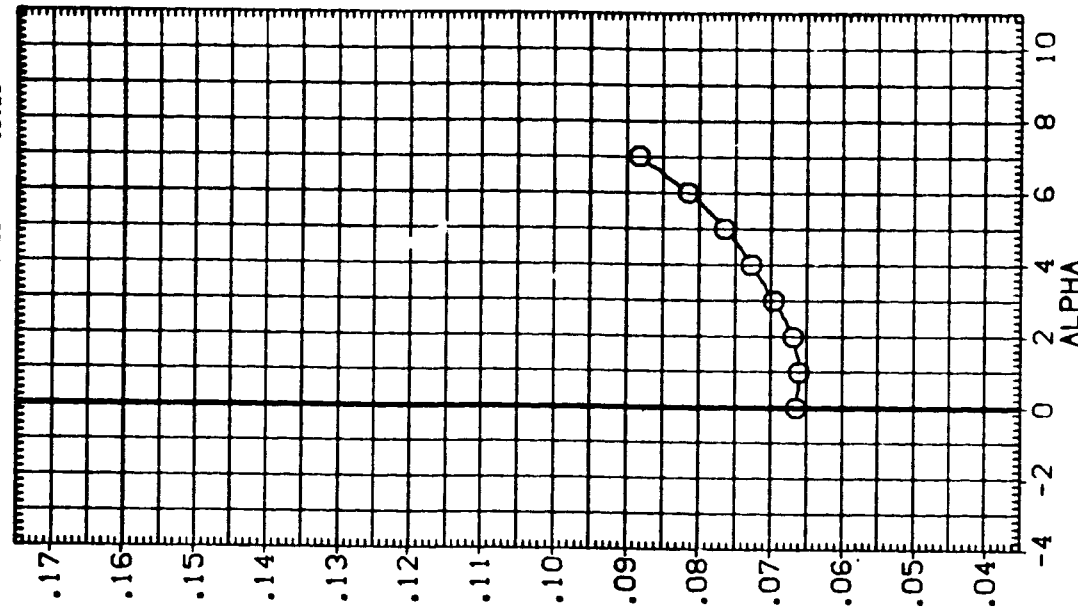
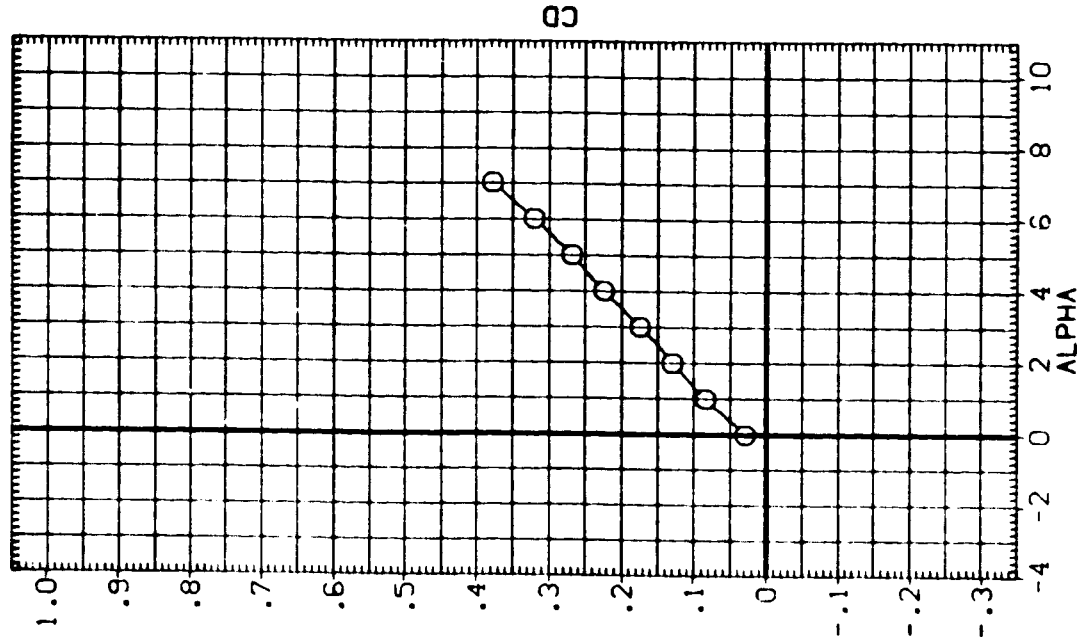


FIG.4 ORBITER ISOLATED AERO CHARACTERISTICS

(A)MACH = .60

DATA SET SYMBOL (BE9A06) ○ CONFIGURATION DESCRIPTION ARC14-080-1 CA23 045 (ORBITER ISOLATED)

BETA0 .000 ELV-0 5,000 AIL-0 -10,000 RU0-0 .000

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 474.8100 IN.
 BREF 936.6800 IN.
 XMRP 1105.0000 IN. X0
 YMRP .0000 IN. Y0
 ZMRP 375.0000 IN. Z0
 SCALE .0125

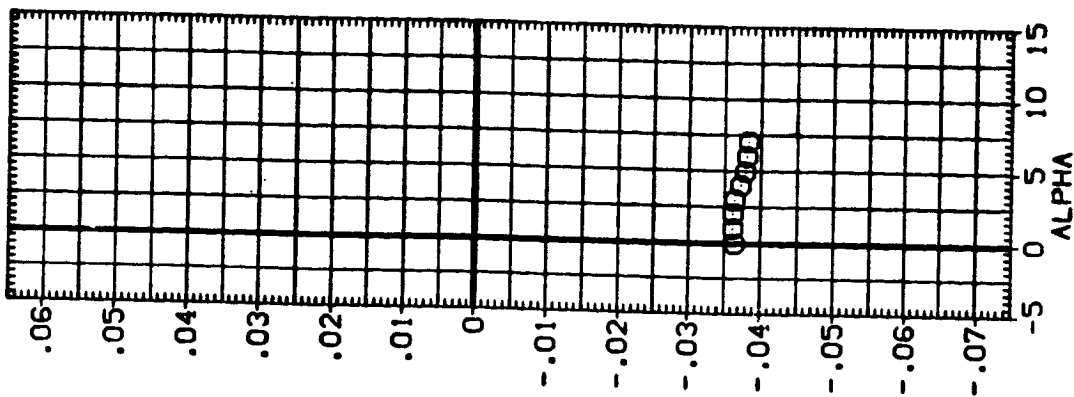
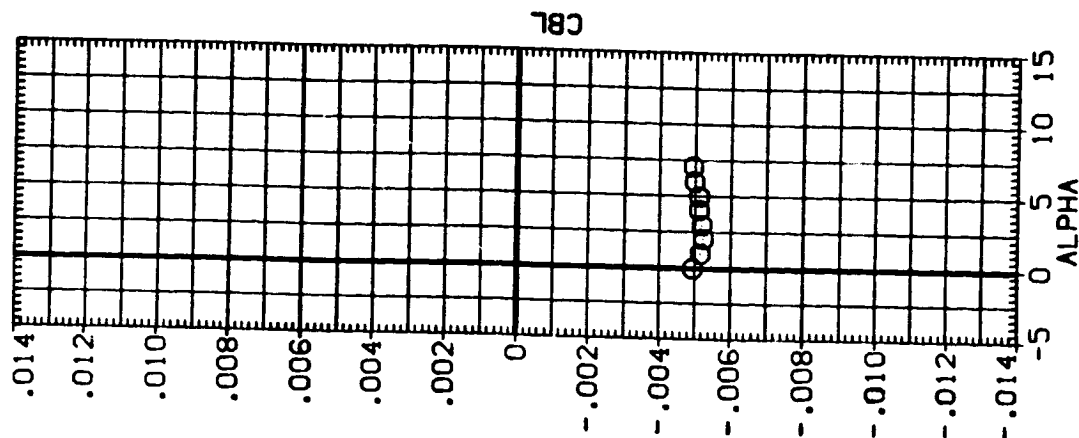
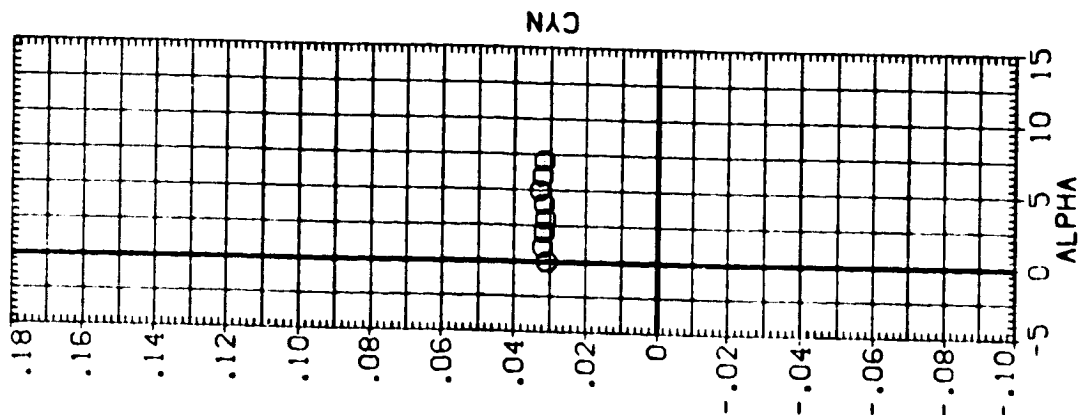


FIG.4 ORBITER ISOLATED AERO CHARACTERISTICS

(A)MACH = .60

DATA SET SYMBOL (BES07) ○ CONFIGURATION DESCRIPTION ARC14-080-1 CA23 045 (ORBITER ISOLATED)

BETA0 .000 ELV-0 .000 AIL-0 .000 RUO-0 .000

REFERENCE INFORMATION
 SREF 2690.0000 90.FT.
 LREF 474.8100 IN.
 BRPF 936.6800 IN.
 XMRP 1109.0000 IN. X0
 YMRP .0000 IN. Y0
 ZMRP 375.0000 IN. Z0
 SCALE .0125

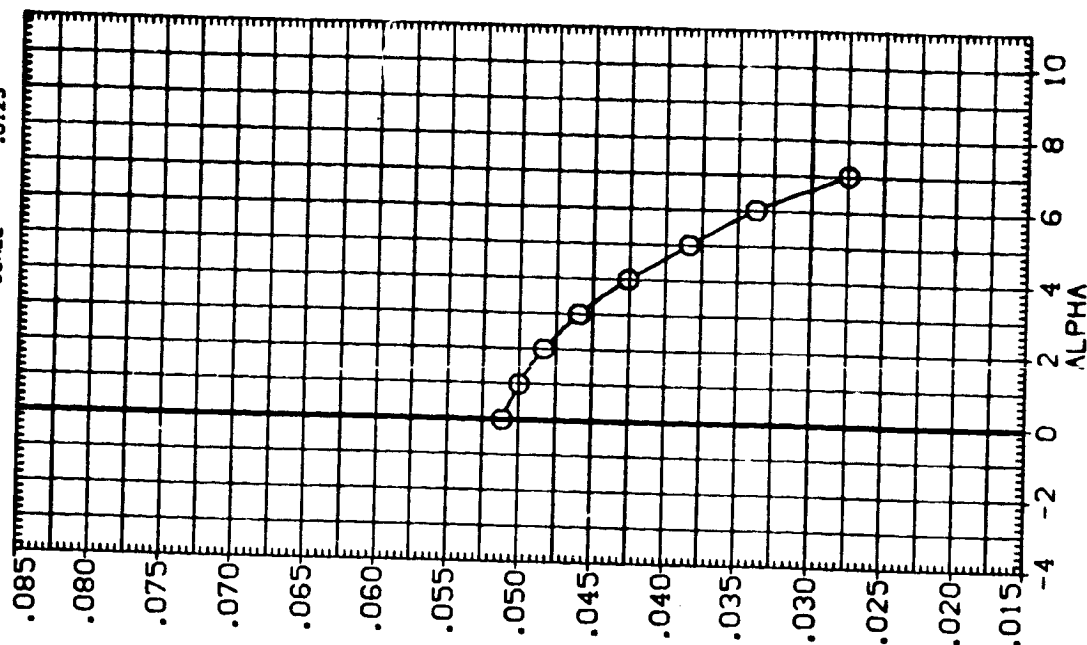
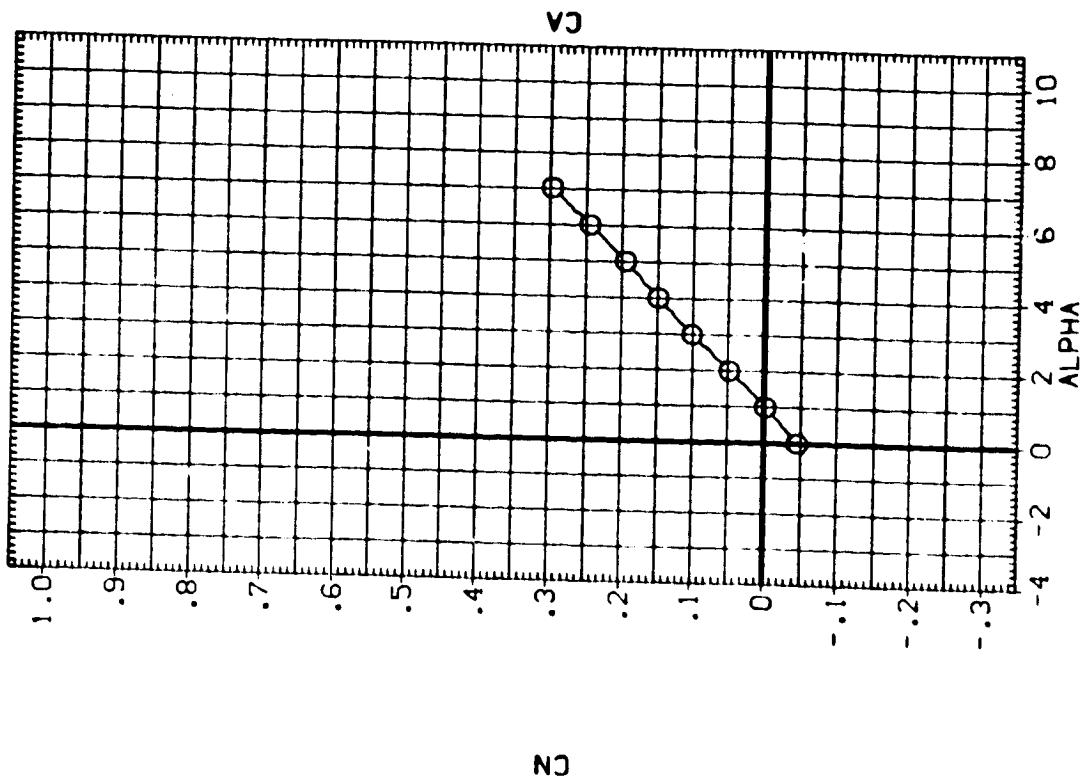


FIG.4 ORBITER ISOLATED AERO CHARACTERISTICS

(A)MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(BE9A07) ○ ARC14-080-1 CA23 045 (ORBITTER ISOLATED)

BETA-D ELV-0 AIL-0 RUO-0
.000 .000 .000 .000

REFERENCE INFORMATION
SREF 2690.0000 50.FT.
LREF 474.8100 IN.
BREF 936.6800 IN.
XMRP 1109.0000 IN. NO
YMRP .0000 IN. NO
ZMRP 375.0000 IN. NO
SCALE .0125

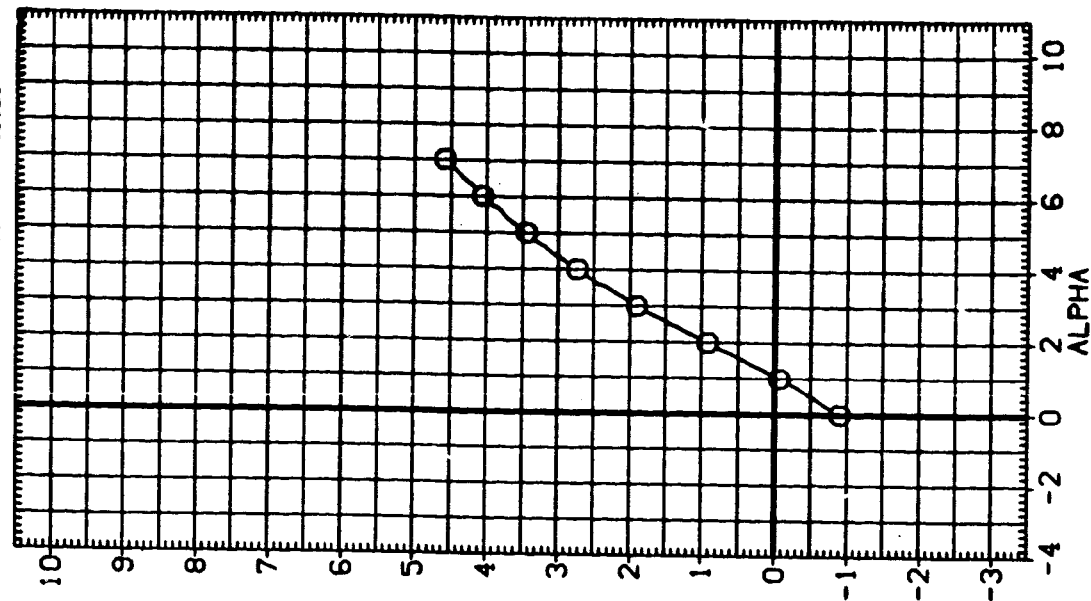
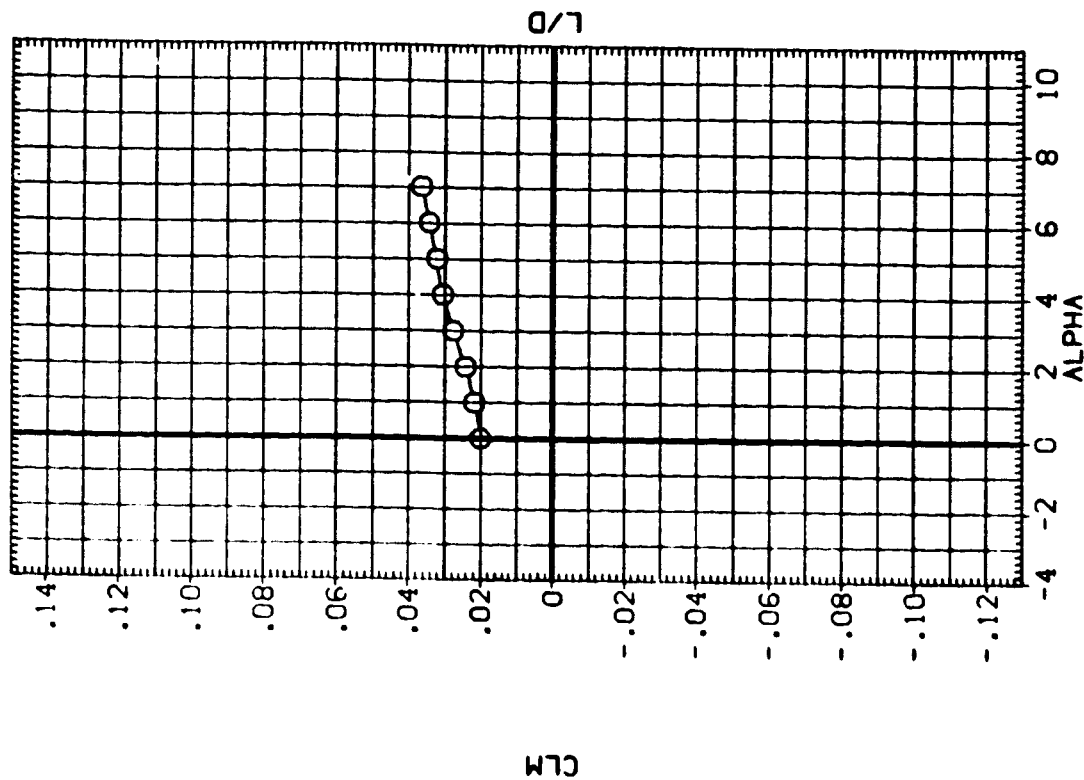


FIG.4 ORBITTER ISOLATED AERO CHARACTERISTICS

(A)MACH = .60

DATA SET SYMBOL (BEGA07)
 CONFIGURATION DESCRIPTION ARC14-080-1 CA23 045 (ORBITER ISOLATED)
 REFERENCE INFORMATION
 SREF 2590.0000 SQ.FT.
 LREF 474.8100 IN.
 BREF 936.6800 IN.
 XMRP 1109.0000 IN.
 YMRP 375.0000 IN.
 ZMRP 375.0000 IN.
 SCALE 0.005

BETAB .000
 ELV-0 .000
 AIL-0 .000
 RUJ-0 .000

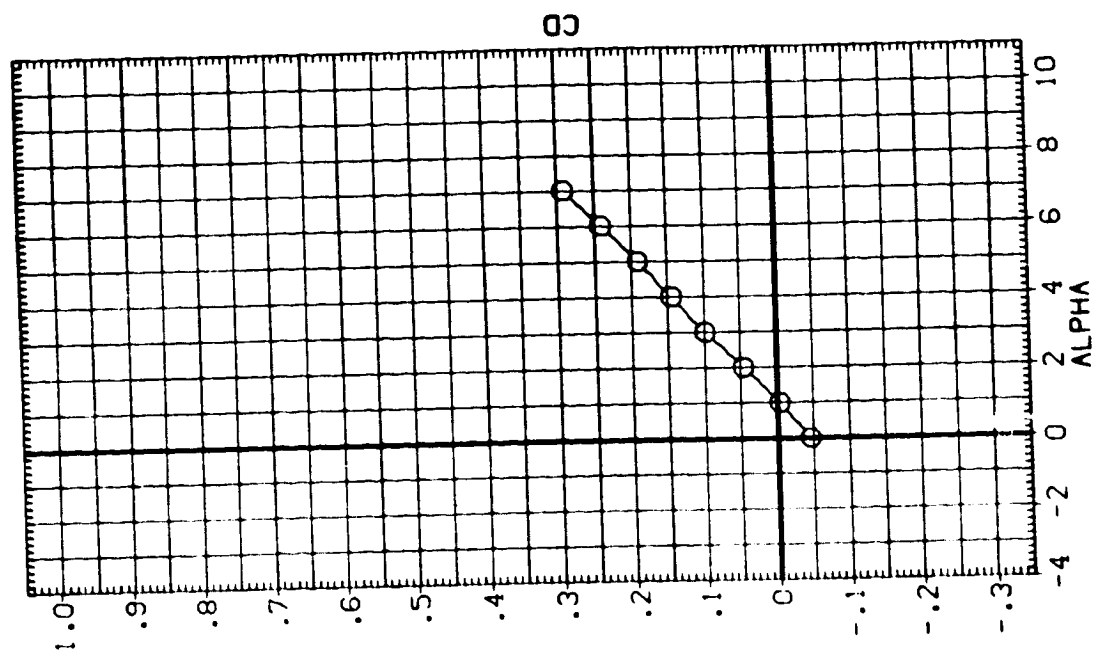
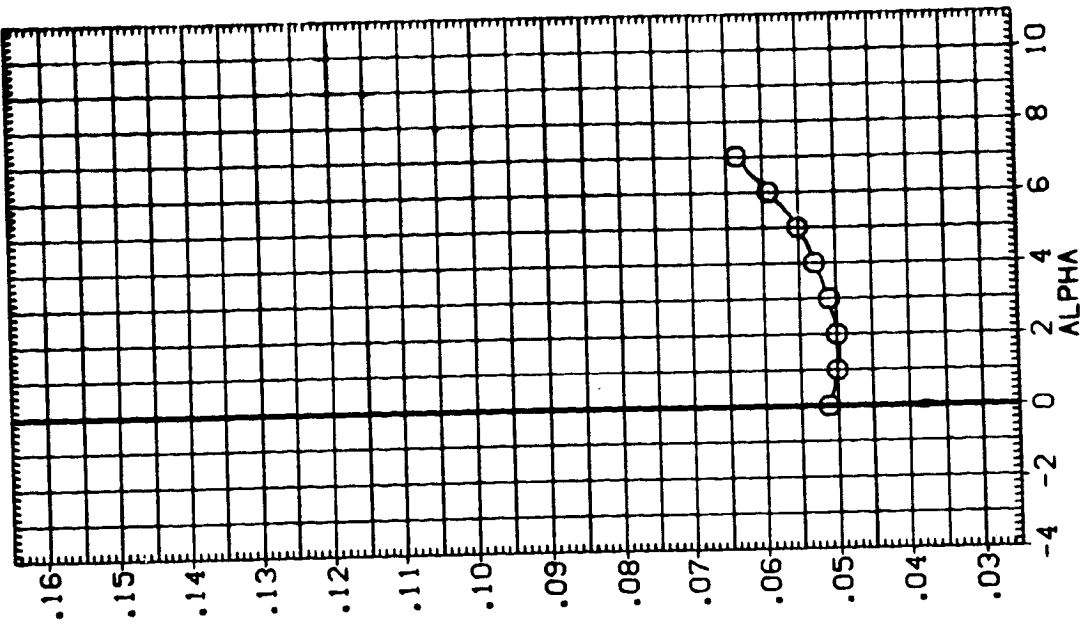


FIG.4 ORBITER ISOLATED AERO CHARACTERISTICS
 (A)MACH = .60

REPRODUCIBILITY OF THE
 ORIGINAL PAGE IS POOR

DATA SET SYMBOL: (BE9A07) ☐ ARC14-080-1 CA23 045 (ORBITER ISOLATED)

CONFIGURATION DESCRIPTION

BETA0 ELV-0 ALL-0 RUO-0

REFERENCE INFORMATION
 SREF 2690.0000 SO.FT.
 LREF 474.8100 IN.
 BREF 936.6800 IN. X0
 XMRP 1109.0000 IN. Y0
 YMRP 375.0000 IN. Z0
 SCALE .0125

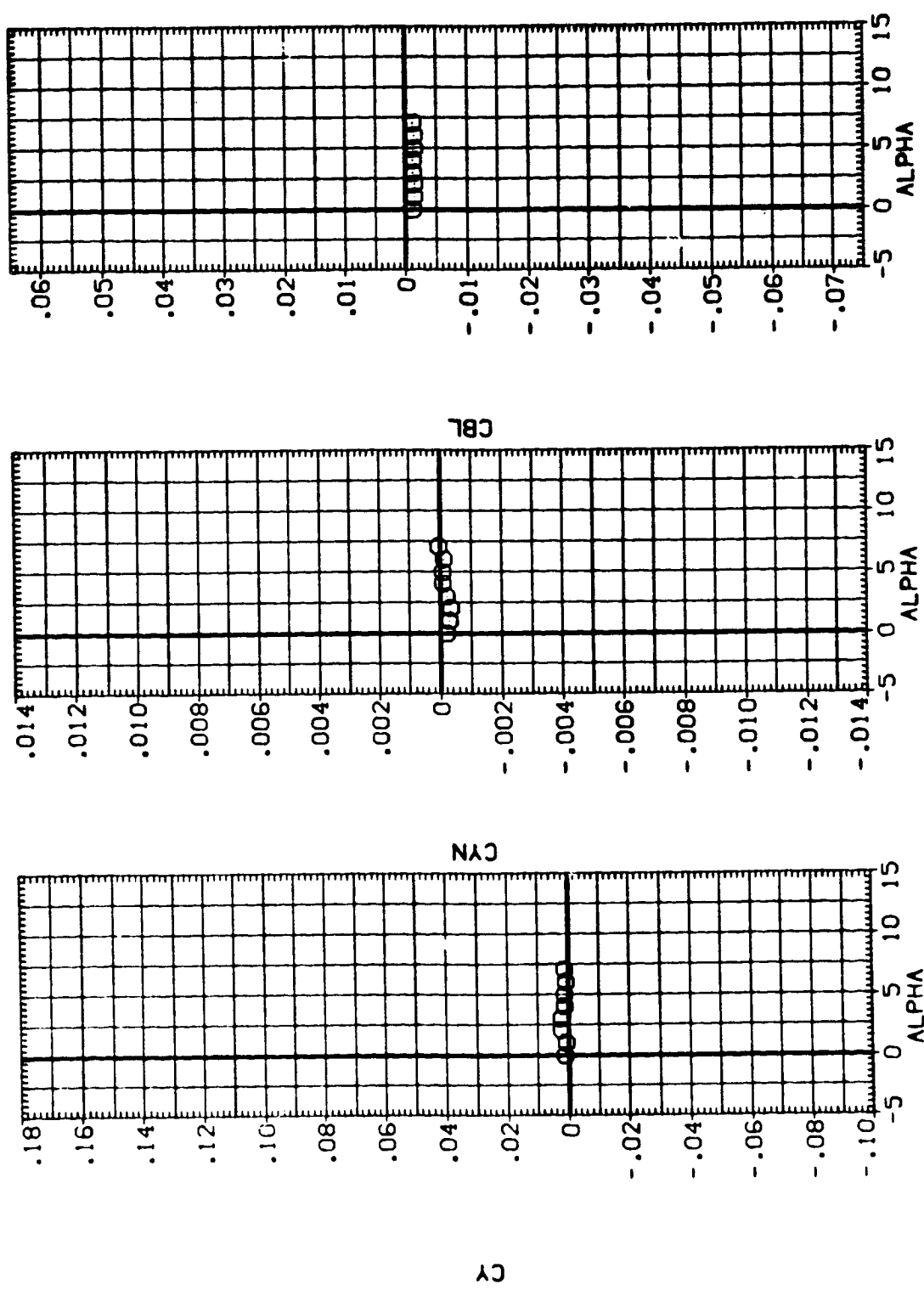


FIG.4 ORBITER ISOLATED AERO CHARACTERISTICS

(A)MACH = .60



DATA SET SYMBOL (BESACB) \bigcirc CONFIGURATION DESCRIPTION ARC14-080-1 CA23 04S (ORBITTER ISOLATED)

BETA0 -5.000 ELV-0 5.000 AIL-0 .000 RU0-0 .000
 REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 474.8100 IN.
 BRPF 936.6800 IN. 10
 XMRP 1109.0000 IN. 10
 YMRP .0000 IN. 10
 ZMRP 375.0000 IN. 20
 SCALE .0125

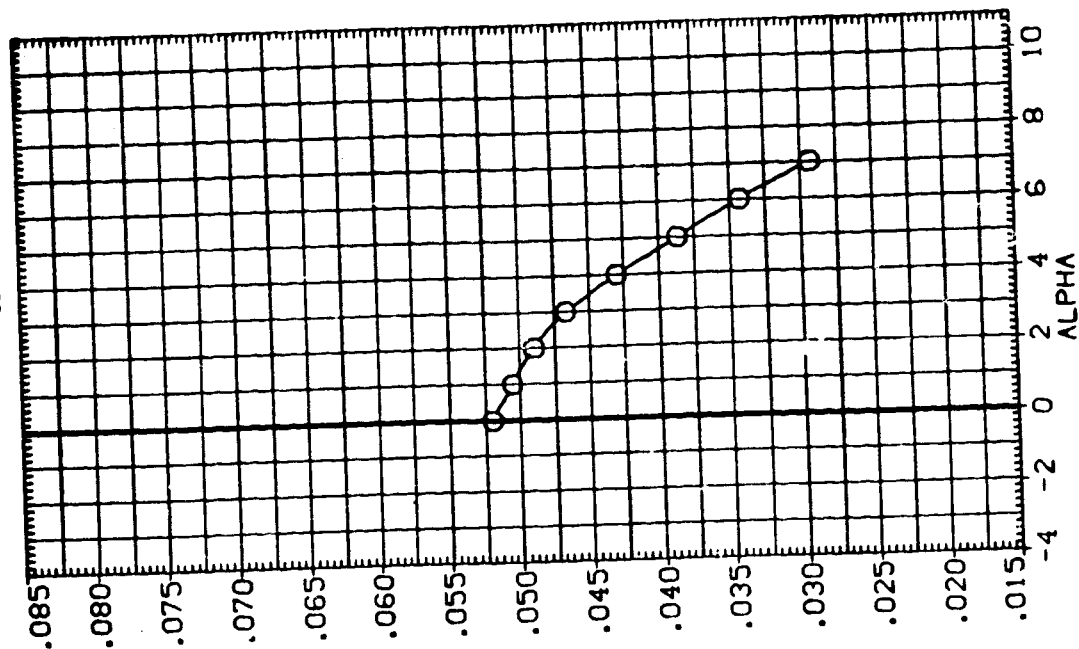
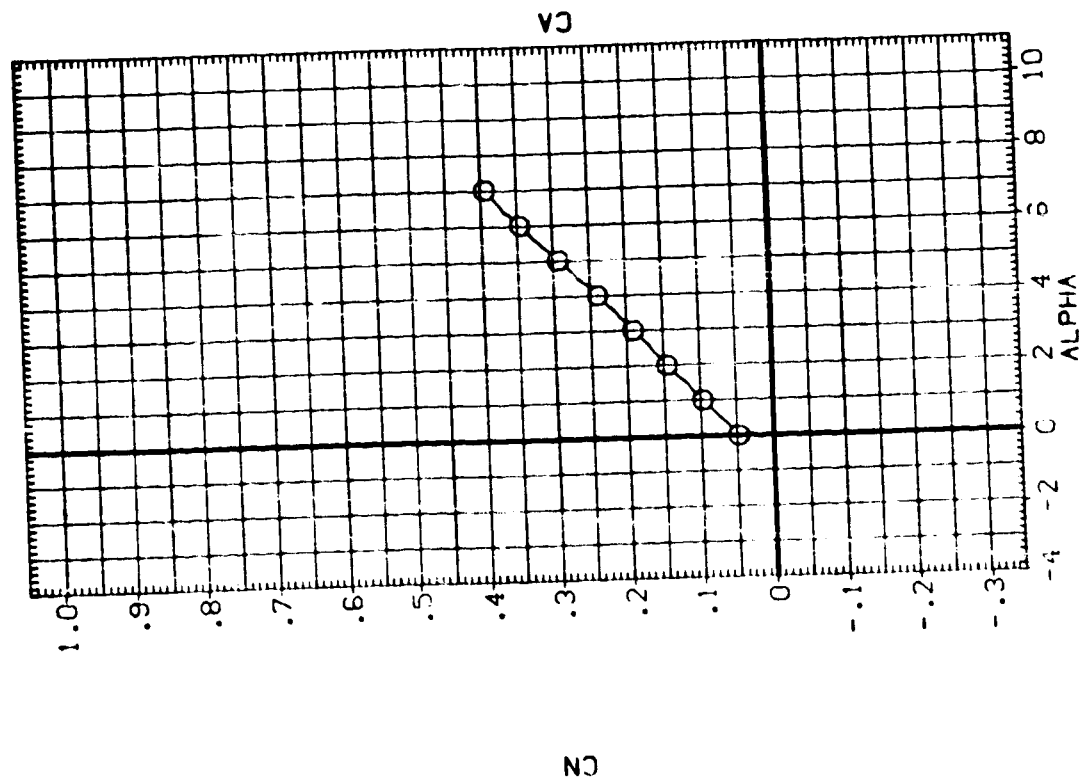


FIG.4 ORBITTER ISOLATED AERO CHARACTERISTICS

(A)MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(B9908) ○ ARC14-080-1 CA23 04S (ORBITER ISOLATED)

BETA0 ELV-0 AIL-0 RUO-0
-5.000 5.000 .000 .000

REFERENCE INFORMATION
SREF 2690.0000 SQ.FT.
LREF 474.8100 IN.
BREF 936.6800 IN.
XMRP 1105.0000 IN. X0
YMRP 375.0000 IN. Y0
ZMRP .0125
SCALE

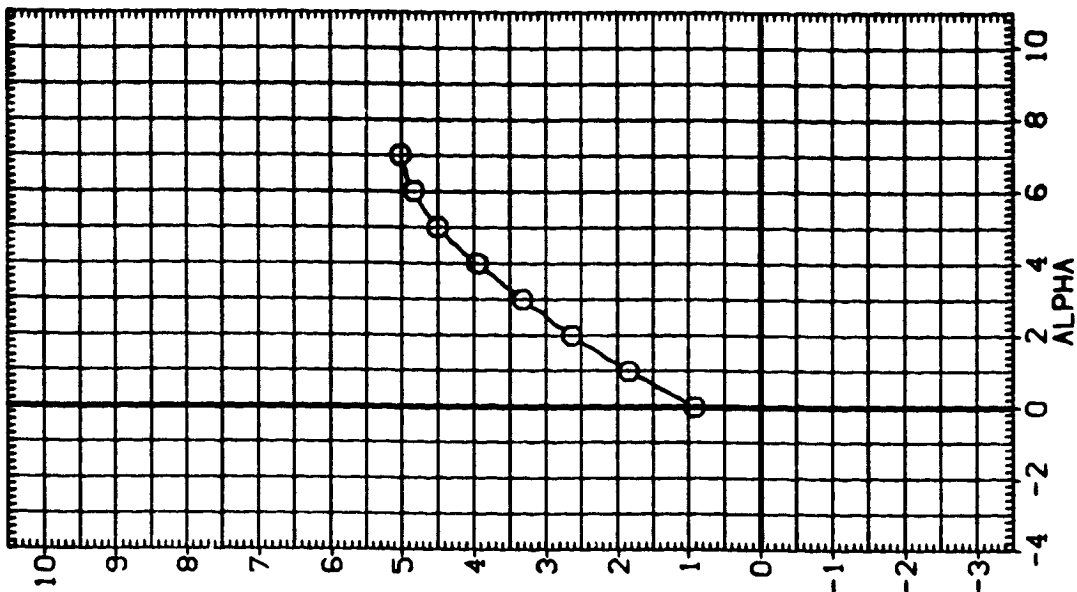
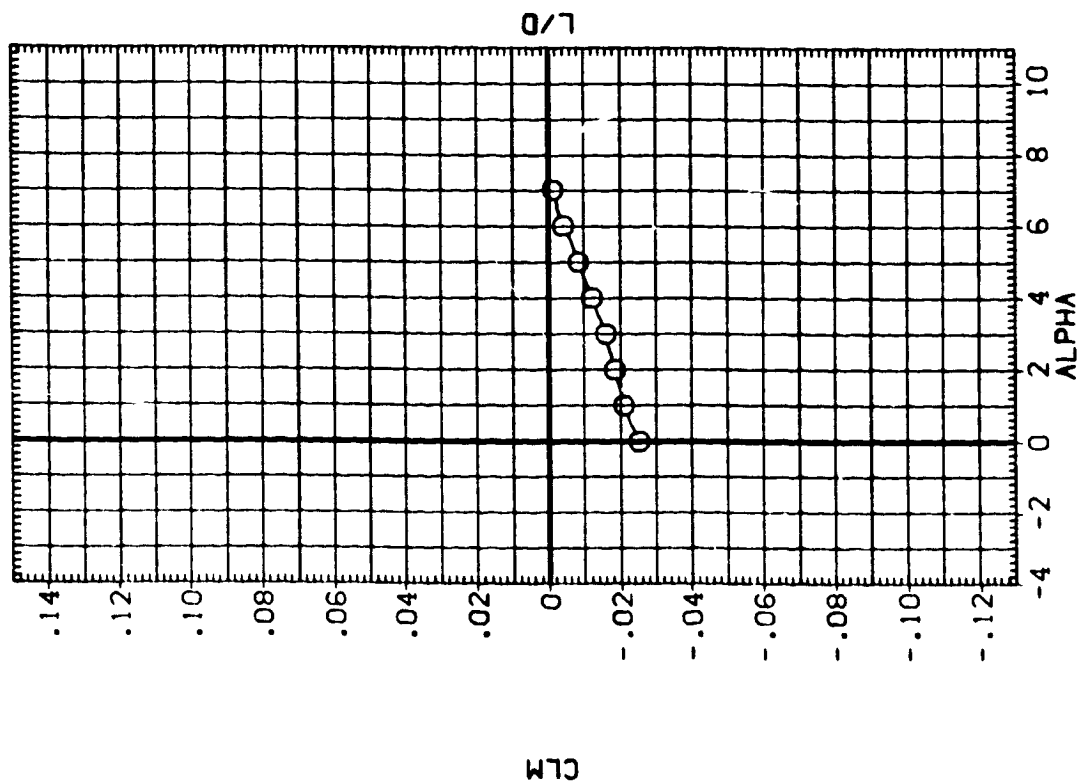


FIG.4 ORBITER ISOLATED AERO CHARACTERISTICS

(A)MACH = .60

DATA SET SYMBOL (BE9A08) ○ CONFIGURATION DESCRIPTION ARC14-080-1 CA23 C45 (ORBITER ISOLATED)

REFERENCE INFORMATION
 SREF 2690.0000 90 FT.
 LREF 474.8100 IN.
 BREF 936.6900 IN.
 XMRP 1109.0000 IN. 28
 YMRP 375.0000 IN. 28
 ZMRP 375.0000 IN. 28
 SCALE .0125

DIETAO ELV-0 AIL-0 RUO-0
 --5.000 5.000 .000

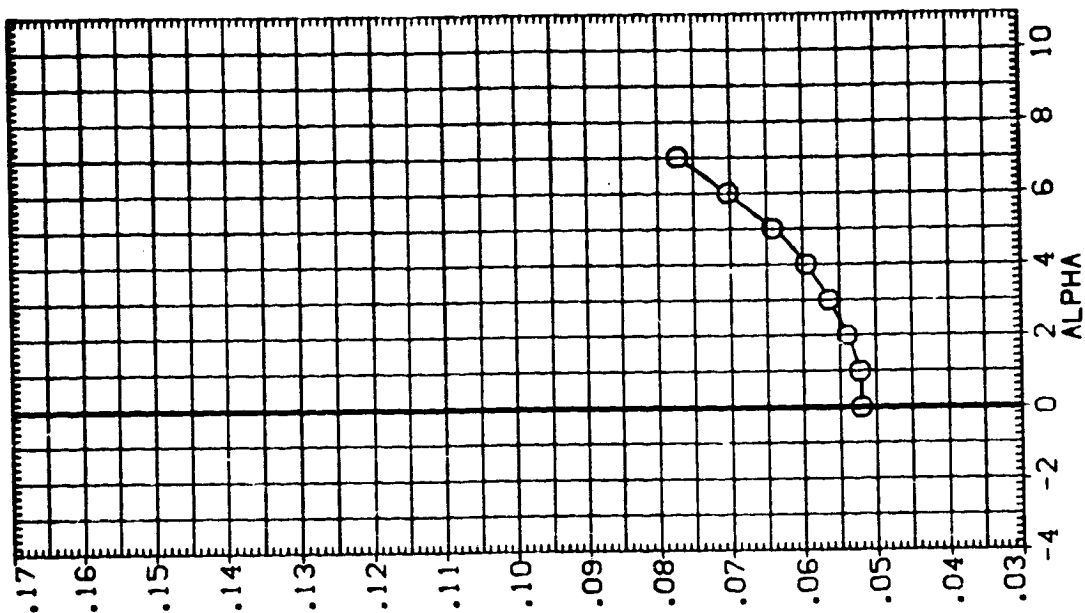
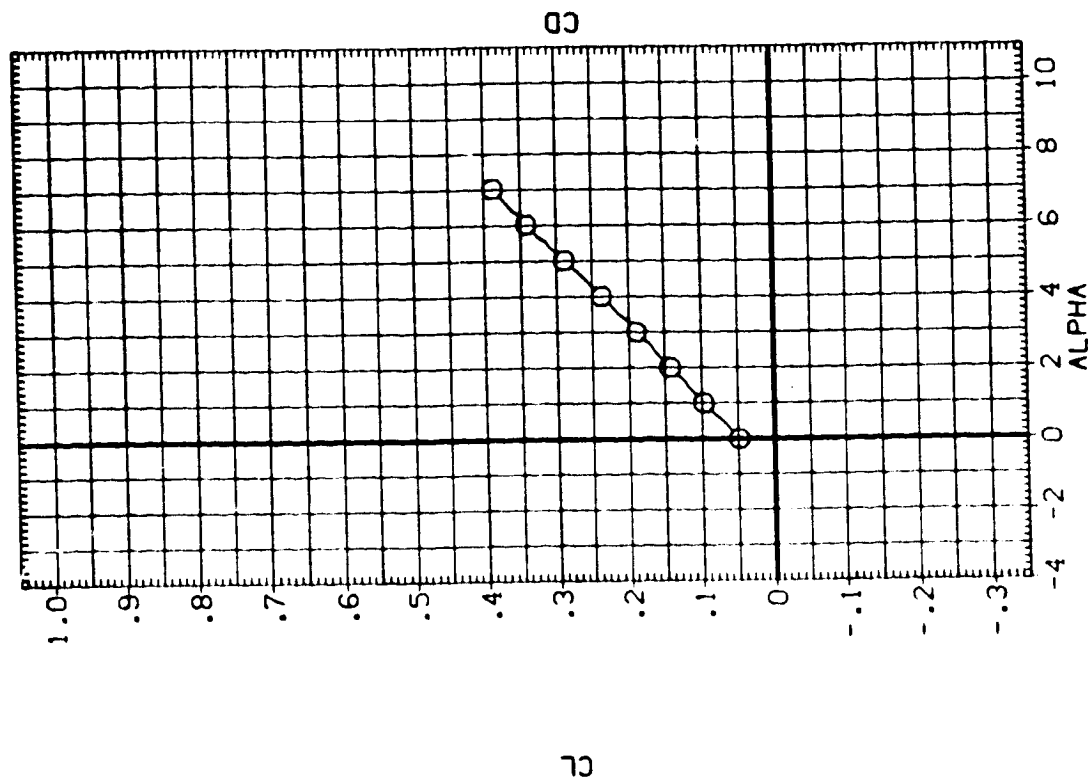


FIG.4 ORBITER ISOLATED AERO CHARACTERISTICS

(A)MACH = .50

DATA SET SYMBOL (BES9A08) ○ ARC14-080-1 CA23 04S (ORBITTER ISOLATED)

CONFIGURATION DESCRIPTION

BETA0 -5.000 AIL-0 .000 RUJ-0 .000

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 474.8100 IN.
 BREF 936.6800 IN.
 XMRP 1109.0000 IN. X0
 YMRP .0000 IN. Y0
 ZMRP 375.0000 IN. Z0
 SCALE .0125

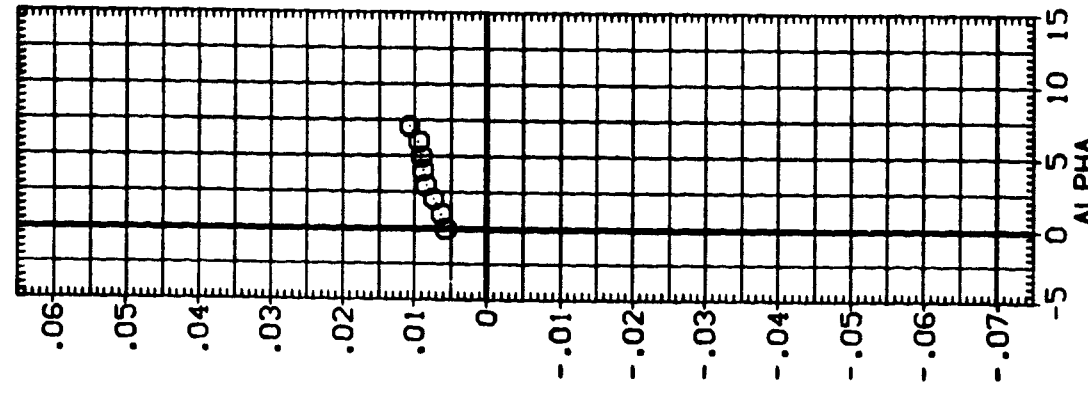
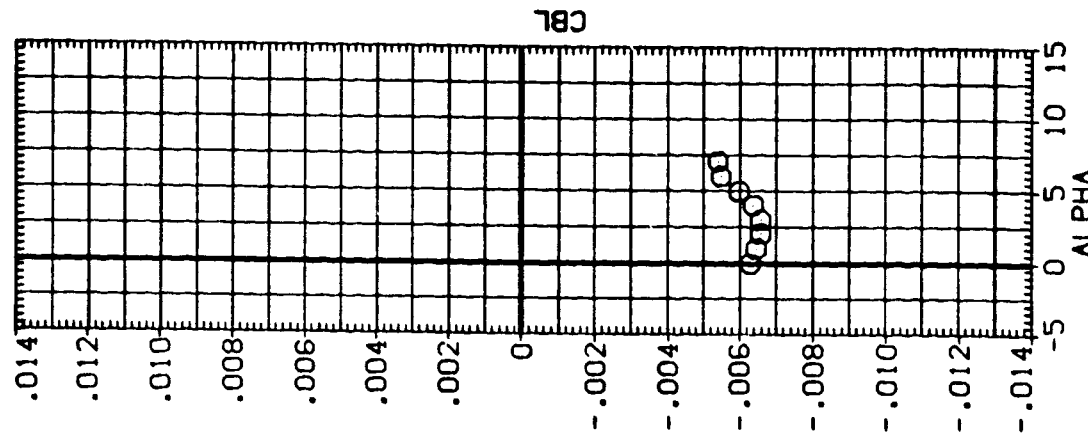
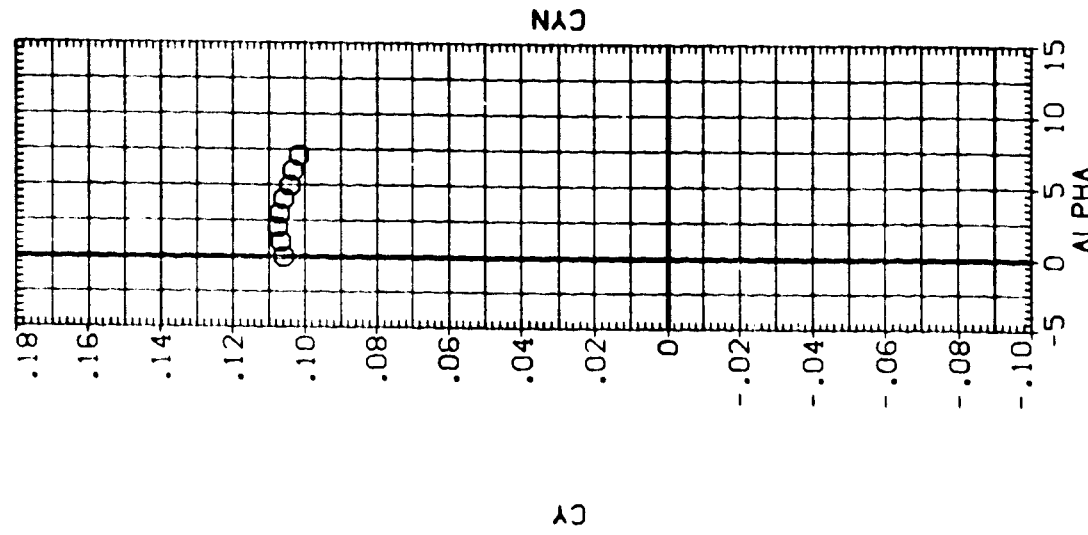


FIG.4 ORBITTER ISOLATED AERO CHARACTERISTICS

(A)MACH = .60

DATA SET SYMBOL (CE9A01) \bigcirc CONFIGURATION DESCRIPTION ARC14-080-1 CA23 BAS (ORBITER ISOLATED)

BETA0 .000 ELV-0 5.000 AIL-0 .000 RUQ-0 .000
 REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 474.8100 IN.
 BREF 936.6800 IN.
 XMRP 1109.0000 IN. X0
 YMRP 375.0000 IN. Y0
 ZMRP 375.0000 IN. Z0
 SCALE .0125

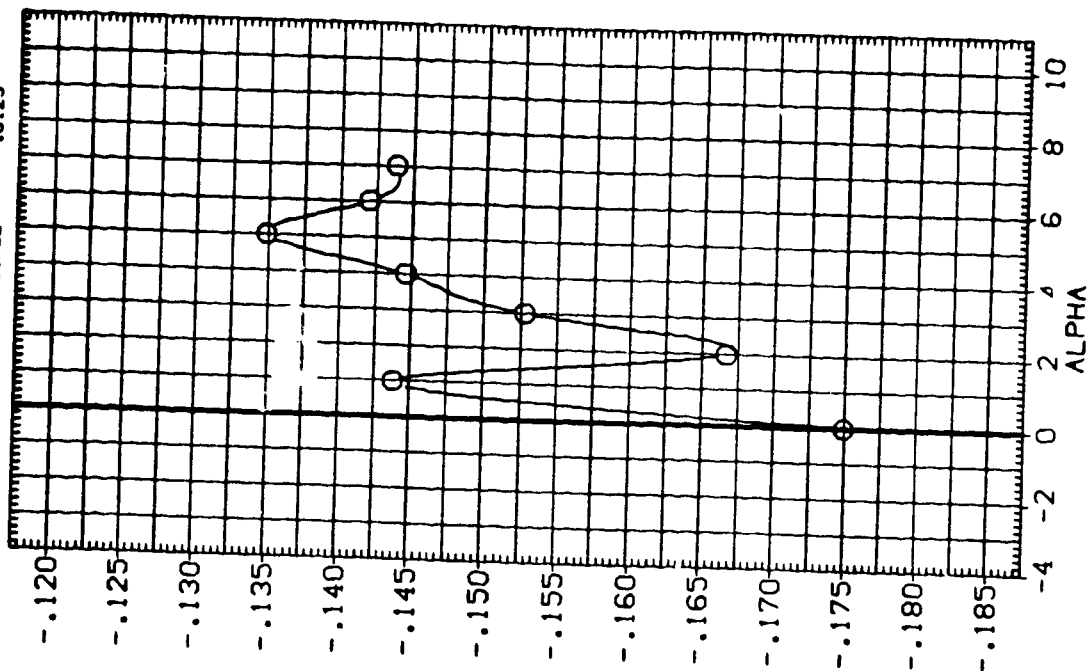
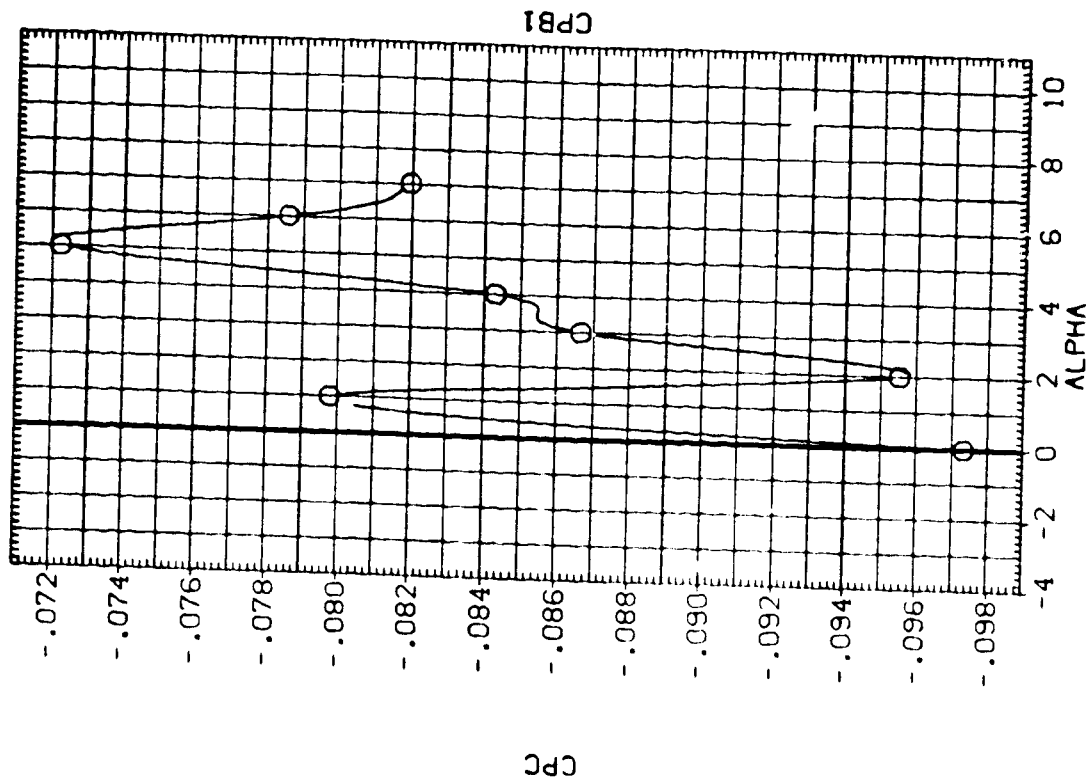


FIG.5 ORBITER ISOLATED BASE AND CAVITY PRESSURES
 (A)MACH = .60

DATA SET SYMBOL (CE9A01) \bigcirc CONFIGURATION DESCRIPTION ARC14-080-1 CA23 045 (ORBITER ISOLATED)

BETA0 .000 ELV-0 5.000 AIL-0 .000 RUD-0 .000

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 474.8100 IN.
 BREF 936.6800 IN.
 XMRP 1109.0000 IN. X0
 YMRP .0000 IN. Y0
 ZMRP 375.0000 IN. Z0
 SCALE .0125

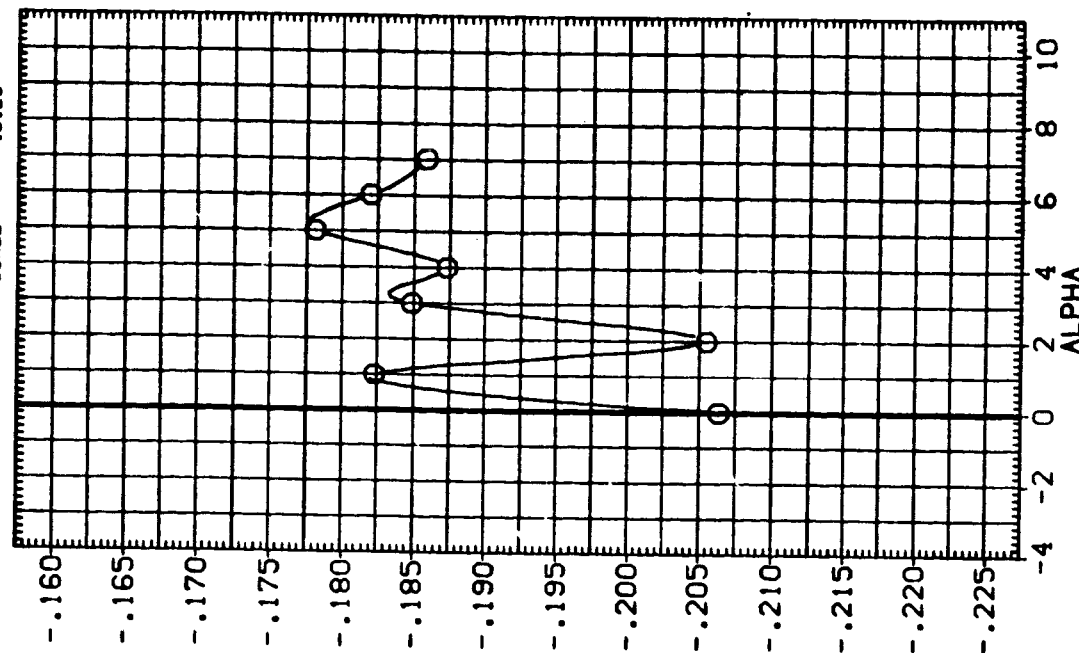
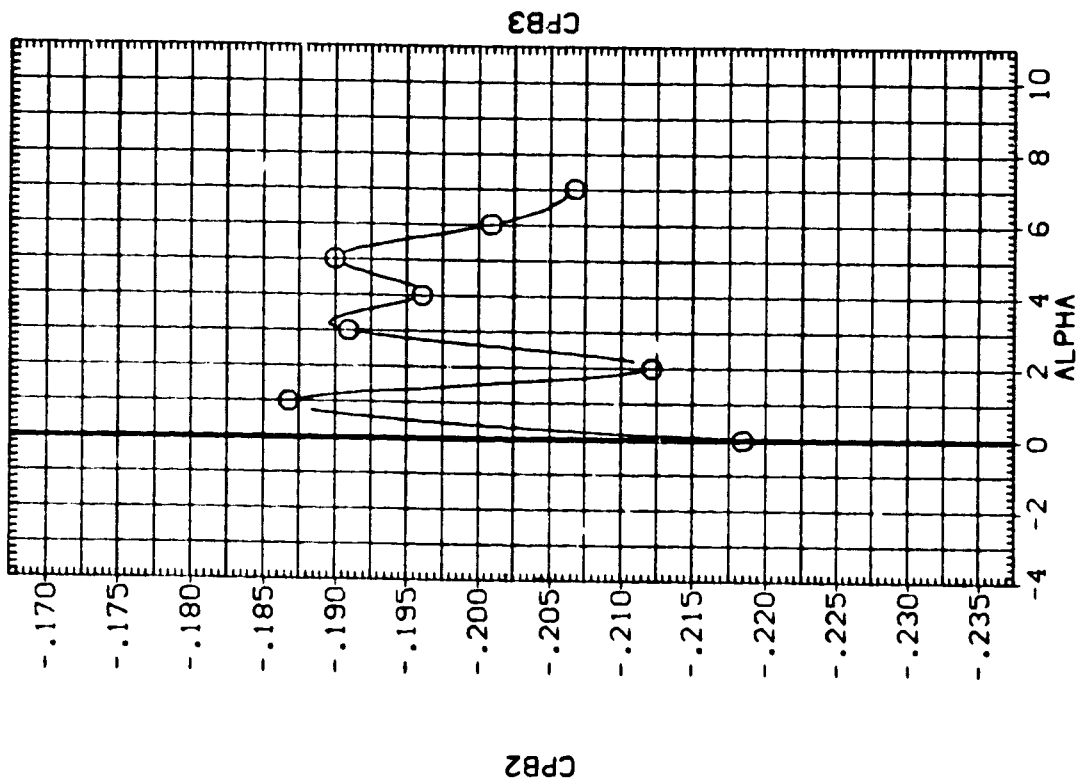


FIG.5 ORBITER ISOLATED BASE AND CAVITY PRESSURES

(A)MACH = .60

DATA SET SYMBOL (CE9A02) ○ CONFIGURATION DESCRIPTION ARC14-080-1 CA23 C45 (ORBITER ISOLATED)

BETA0 .000 ELV-0 .000 AIL-0 .000 RUD-0 .000
 REFERENCE INFORMATION
 SREF 2690.0000 SQ. FT.
 LREF 474.8100 IN.
 BREF 938.6800 IN.
 XMRP 1109.0000 IN. X0
 YMRP 375.0000 IN. Y0
 SCALE .0125

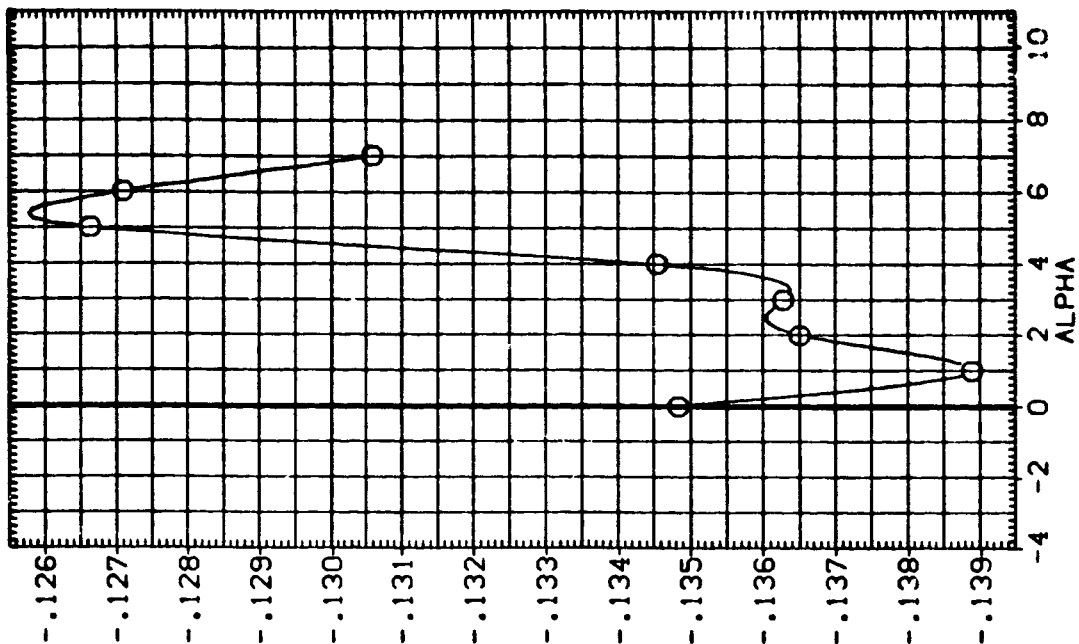
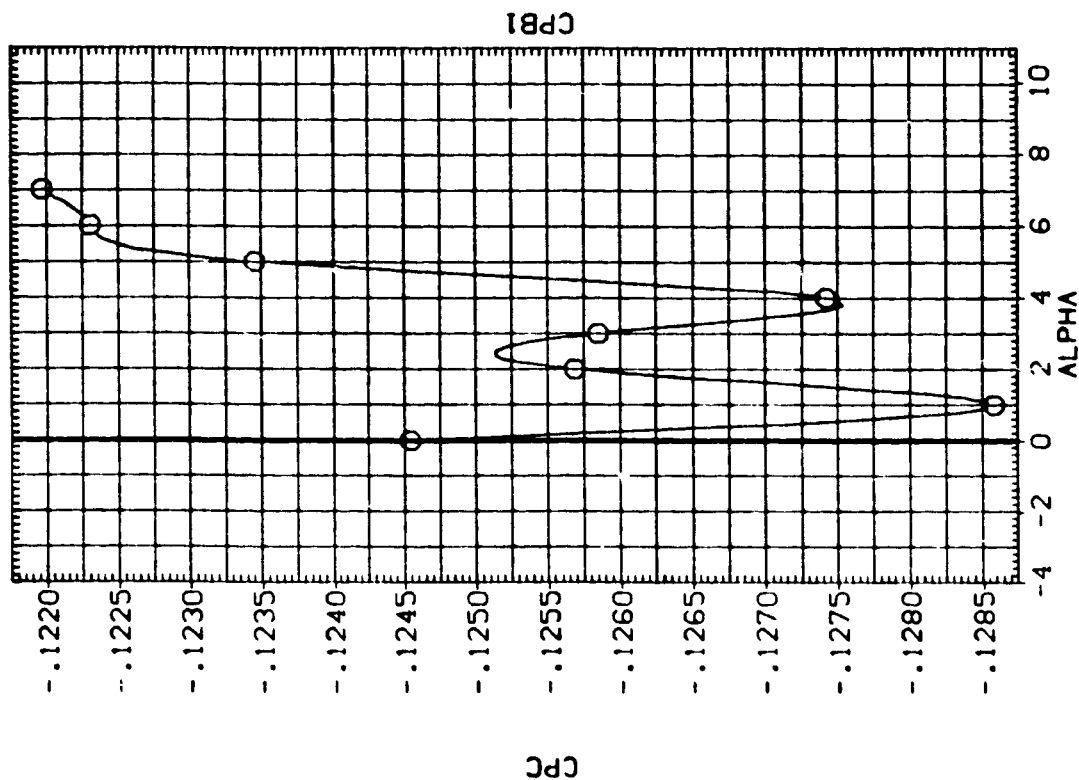


FIG.5 ORBITER ISOLATED BASE AND CAVITY PRESSURES

(A)MACH = .60

DATA SET SYMBOL: CONF:GURATION DESCRIPTION
(CE9A22) ARC:4-080-1 CA23 045 (ORBITER ISOLATED)

BETA0 ELV-0 AIL-0 RUD-0
.000 .000 .000 .000

REFERENCE INFORMATION
SREF 2680.0000 SD.FT.
LREF 474.8100 IN.
BREF 936.6800 IN.
XMRP 1109.0000 IN. YB
YMRP .0000 IN. YB
ZMRP 375.0000 IN. ZB
SCALE .0125

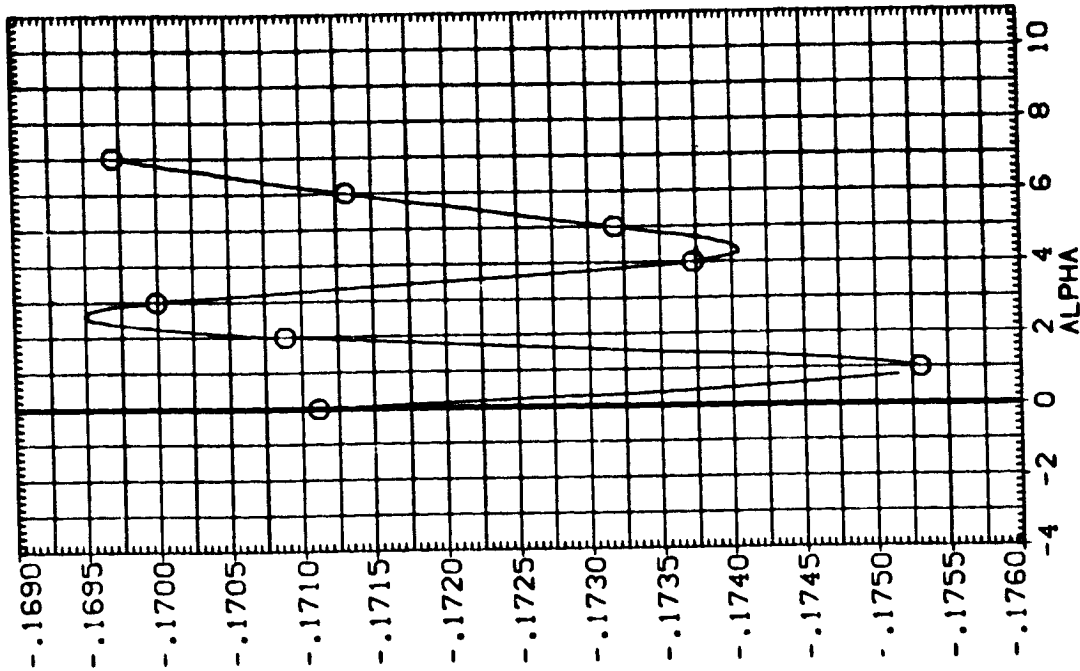
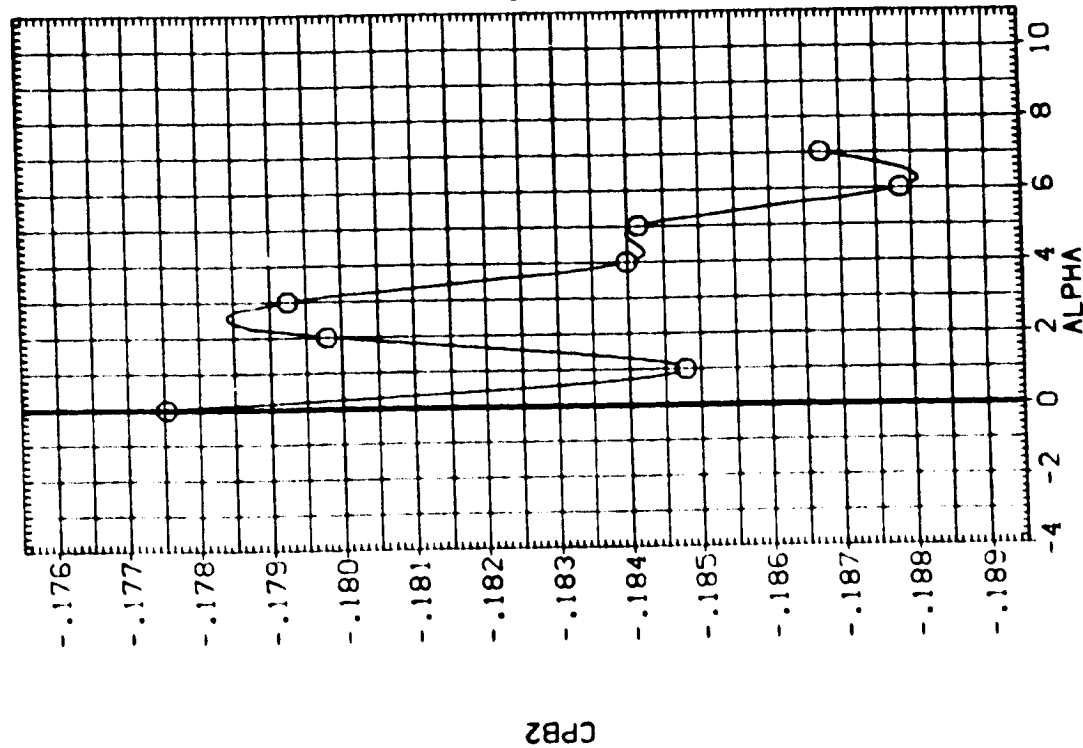


FIG.5 ORBITER ISOLATED BASE AND CAVITY PRESSURES

(A)MACH = .60



DATA SET SYMBOL (CE9A03) ○ CONFIGURATION DESCRIPTION ARC14-080-1 CA23 045 (ORBITER ISOLATED)

BETA0	ELV-0	AIL-0	RUD-0	REFERENCE INFORMATION	
.000	5.000	.000	10.000	SREF	2690.0000
				LREF	474.8100
				BREF	928.6800
				YMRP	1109.0000
				ZMRP	375.0000
				SCALE	.0125

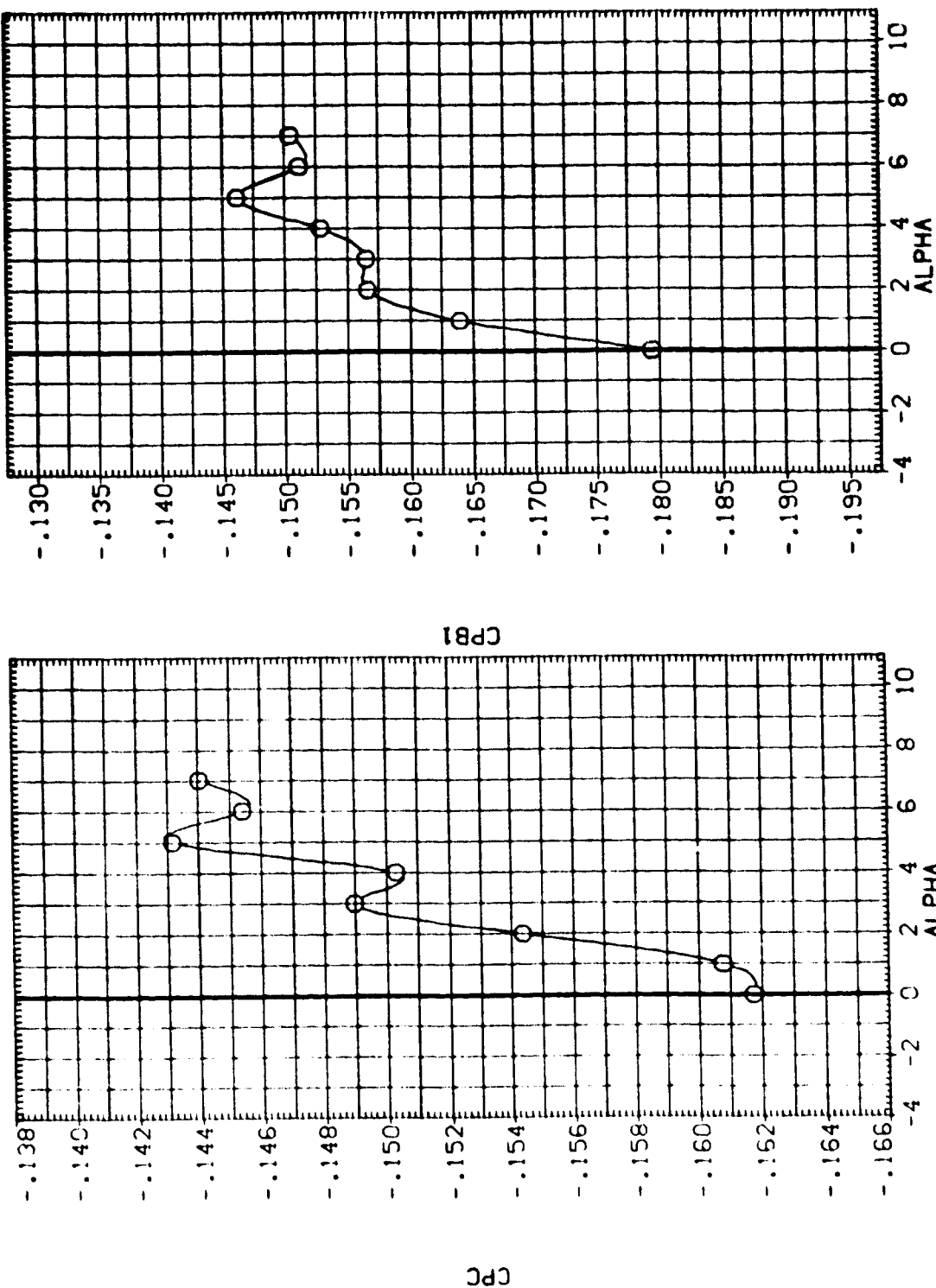


FIG.5 ORBITER ISOLATED BASE AND CAVITY PRESSURES
(M)MACH = .60

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ORIGINAL PAGE IS POOR

DATA SET SYMBOL: (C59A03) ○

CONFIGURATION DESCRIPTION: ARC14-C80-1 CA23 045 (ORBITTER ISOLATED)

REFERENCE INFORMATION:

	SO. FT.
SREF	2690.0000
LREF	474.8100
BREF	936.6800
XMRP	1109.0000
YMRP	.0000
ZMRP	375.0000
SCALE	.0125

BETA0 .000 ELV-0 5.000 AIL-0 .000 RU0-0 10.000

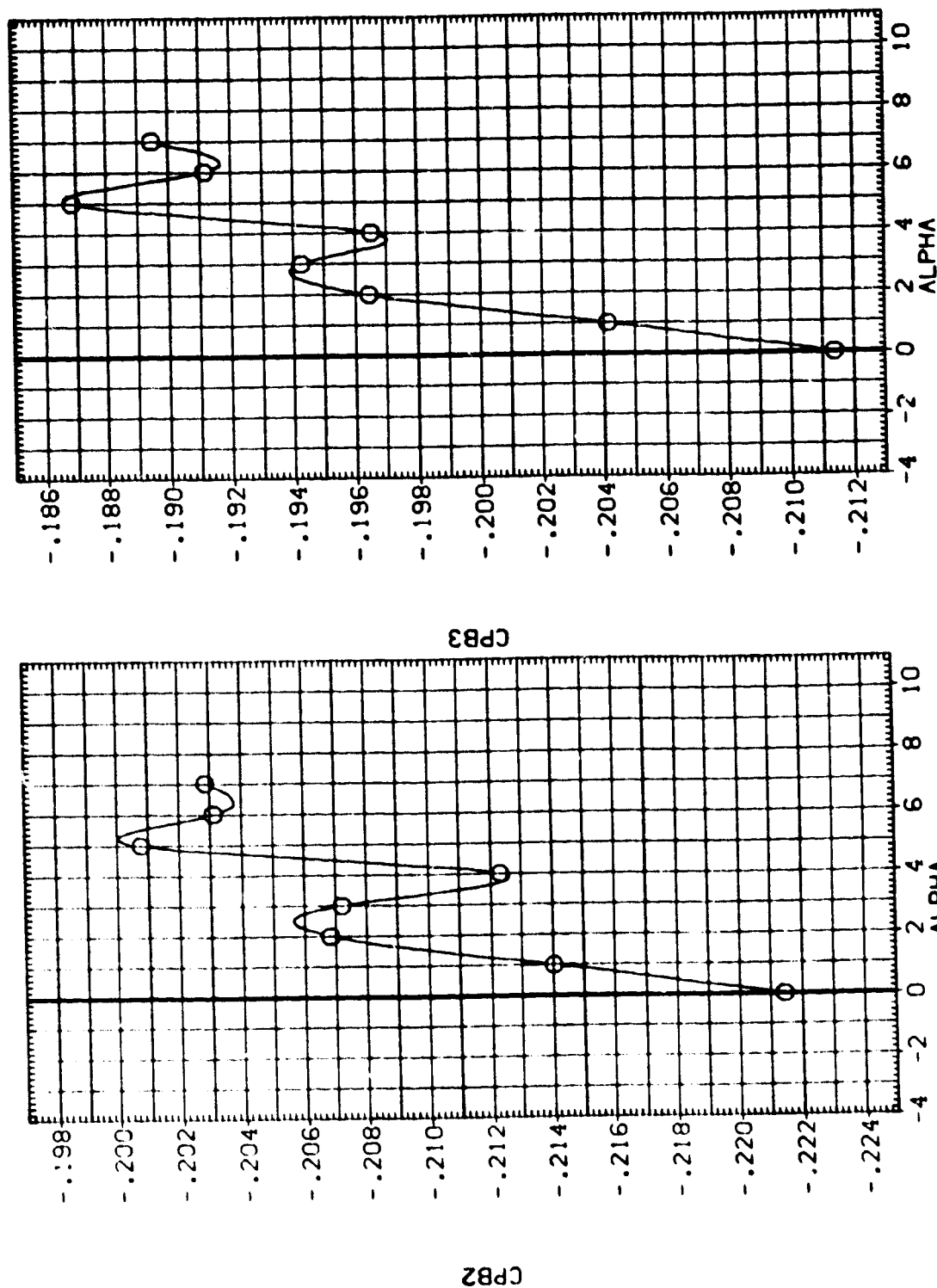


FIG.5 ORBITTER ISOLATED BASE AND CAVITY PRESSURES

(A)MACH = .60

DATA SET SYMBOL: \bigcirc ORBITER ISOLATED
 CONFIGURATION DESCRIPTION: CA23 345 (ORBITER ISOLATED)

BETA0 ELV-0 AIL-0 RUD-0
 .000 5.000 .000 .000

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 474.8100 IN.
 BREF 936.6800 IN.
 XMRP 1109.0000 IN.
 YMRP .0000 IN.
 ZMRP 373.0000 IN.
 SCALE .0125

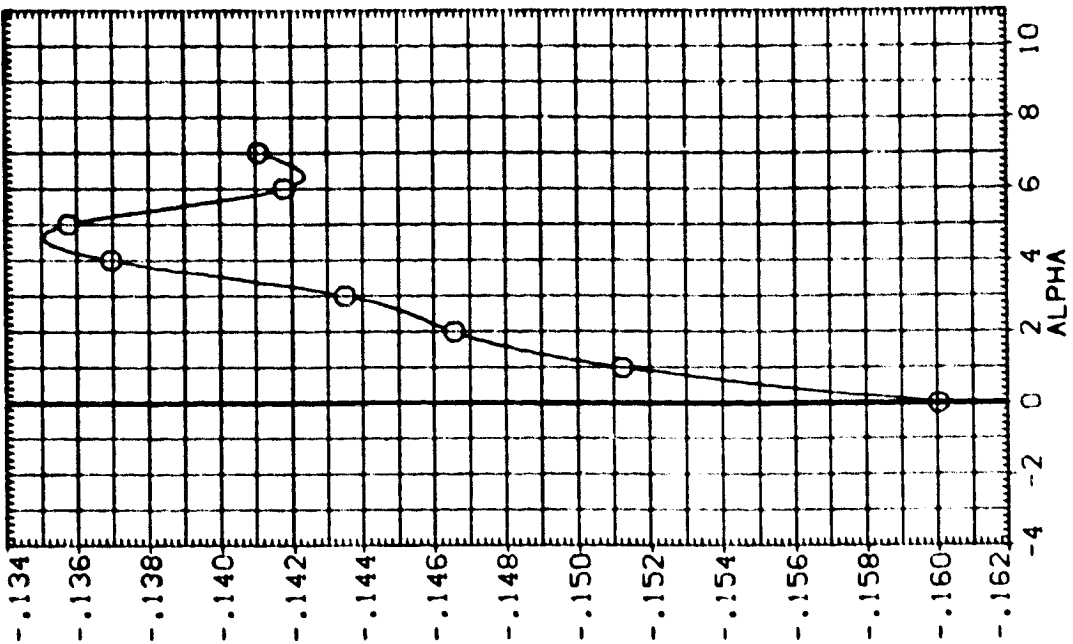
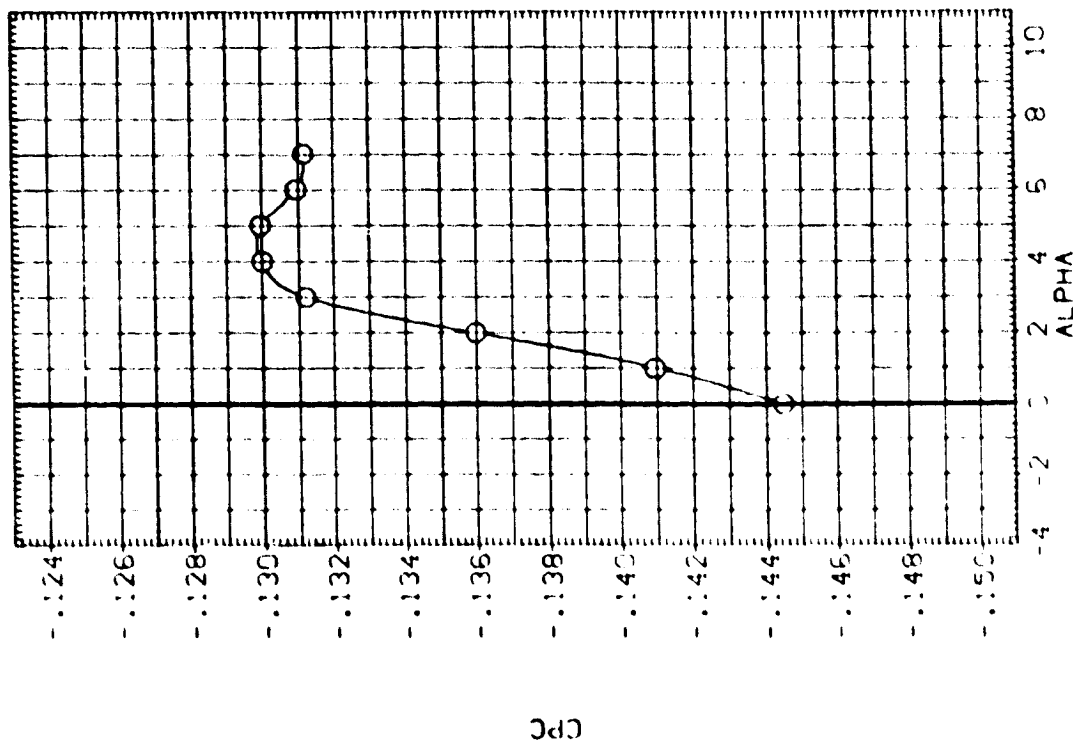


FIG.5 ORBITER ISOLATED BASE AND CAVITY PRESSURES

(A)MACH = .60

BETA	ELV-8	AIR-9	RUD-6
.000'	5.000'	.000'	.000'

SREF	2690.0000	SO.FY.
LREF	474.8100	IN.
BREF	936.6800	IN.
YMRP	1109.0000	IN. XD
YMRP	.0000	IN. YD
ZMRP	375.0000	IN. ZD
SCALE	.0125	

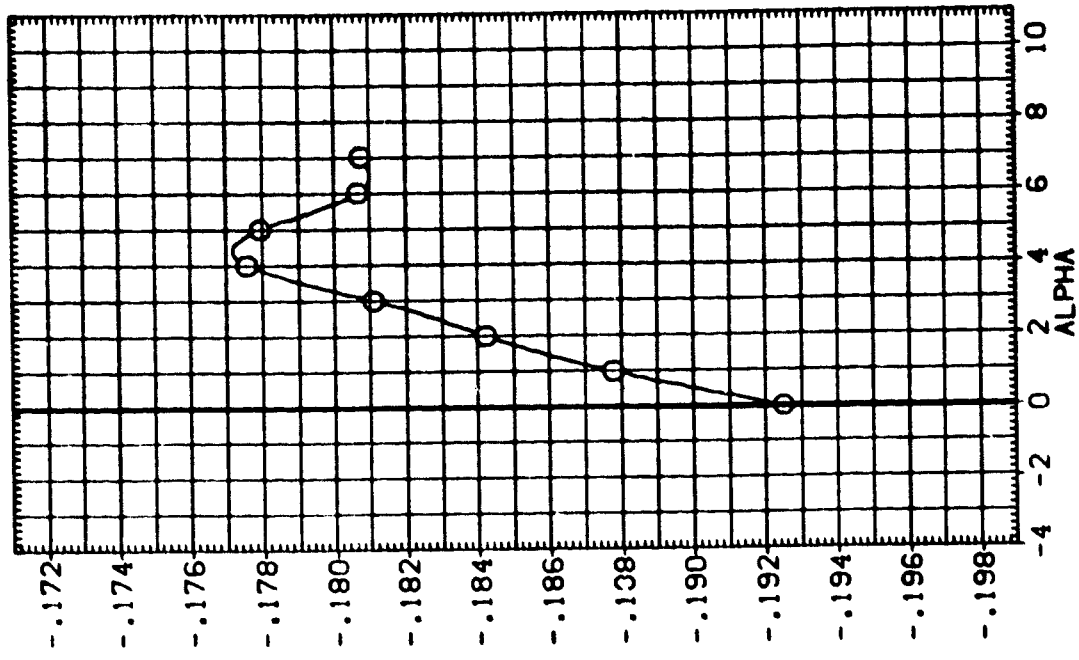
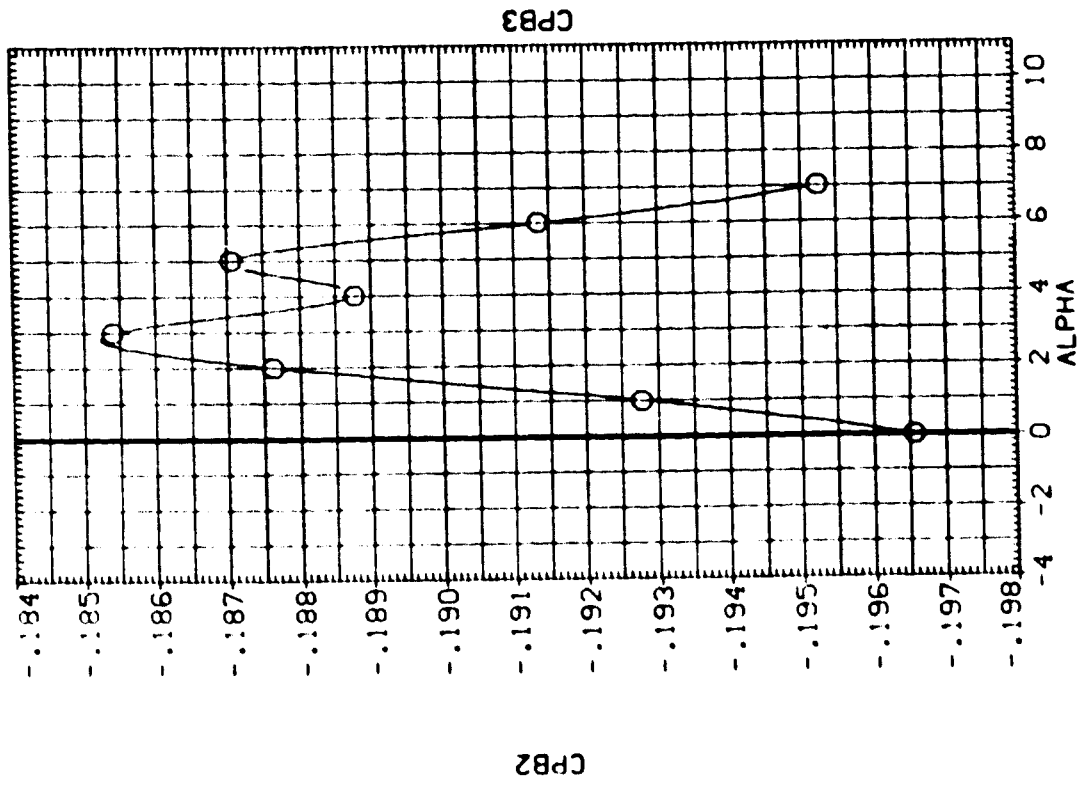


FIG.5 ORBITER ISOLATED BASE AND CAVITY PRESSURES
(A)MACH = .60

DATA SET SYMBOL (CE9A05) ○ CONFIGURATION DESCRIPTION ARC14-080-1 CA23 04S (ORBITER ISOLATED)

BETA0 ELV-0 AIL-0 RUO-0
 .000 10.000 .000 .000

REFERENCE INFORMATION
 SREF 2690.0000 SO.FT.
 LREF 474.8100 IN.
 BREF 936.6800 IN.
 XMRP 1109.0000 IN. X0
 YMRP .0000 IN. Y0
 ZMRP 375.0000 IN. Z0
 SCALE .0125

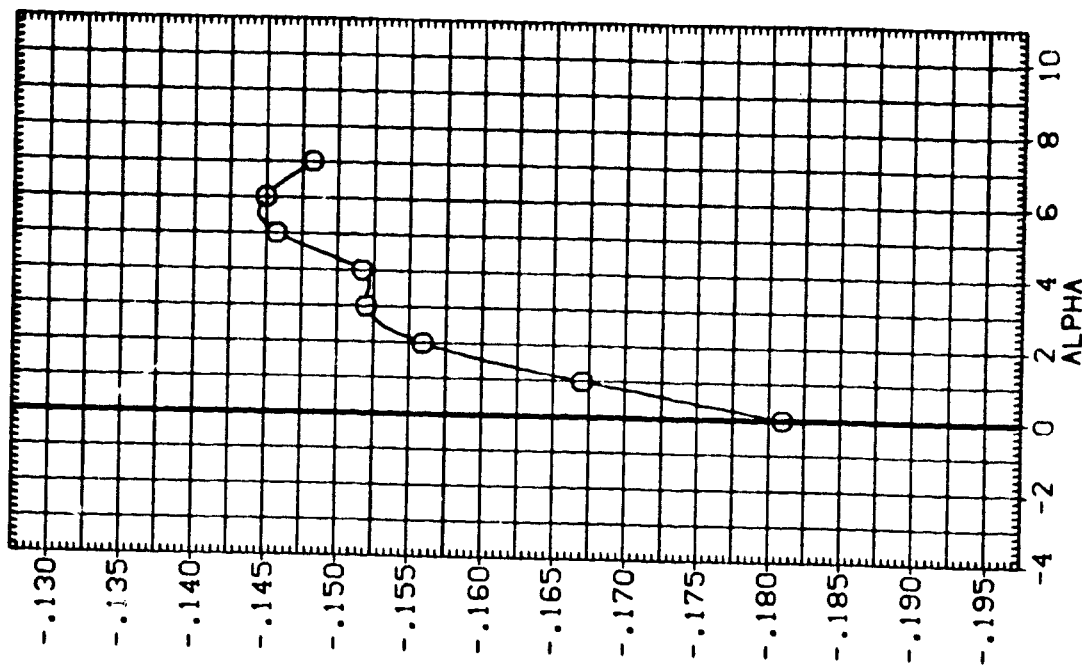
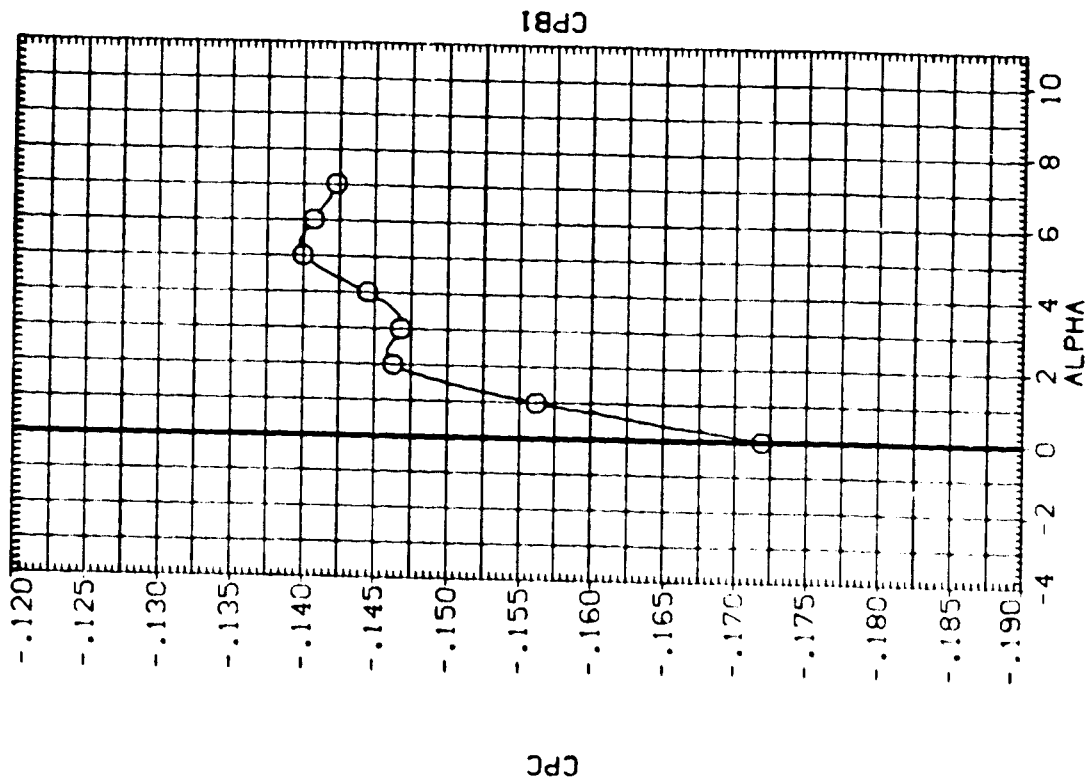


FIG.5 ORBITER ISOLATED BASE AND CAVITY PRESSURES
 (A)MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(CE9A05) ○ ARC14-080-1 CA23 D45 (ORBITER ISOLATED)

BETA0 ELV-0 AIL-0 RUO-0
.000 10.000 .000

REFERENCE INFORMATION
SREF 2690.0000 SO.FT.
LREF 474.8100 IN.
SREF 936.6800 IN.
XMRP 1109.0000 IN. X0
YMRP .0000 IN. Y0
ZMRP 375.0000 IN. Z0
SCALE .0125

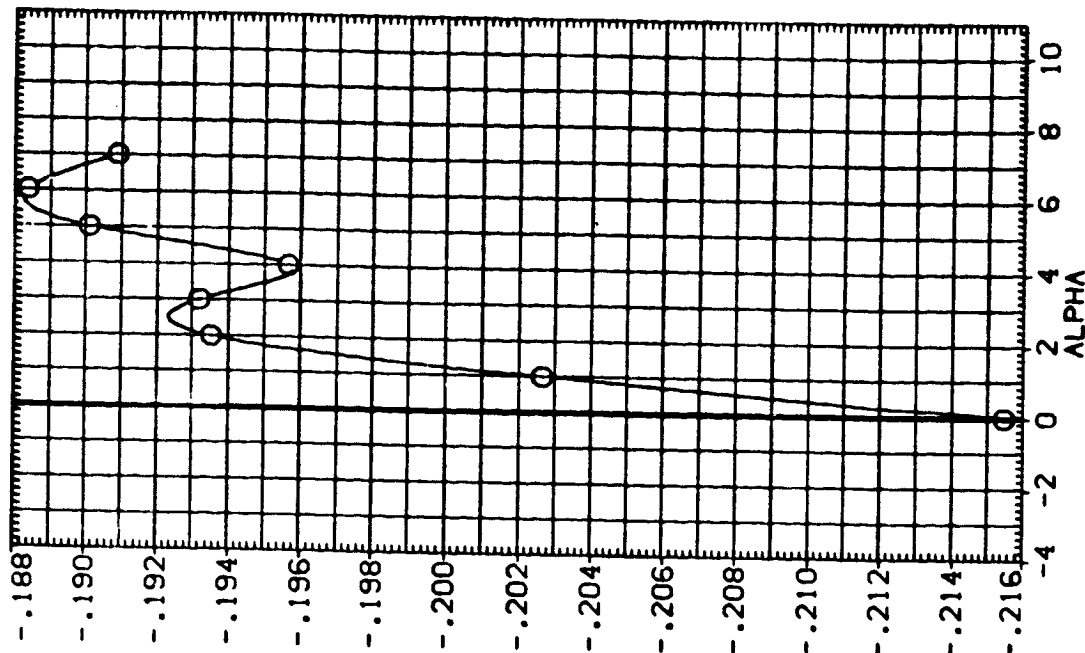
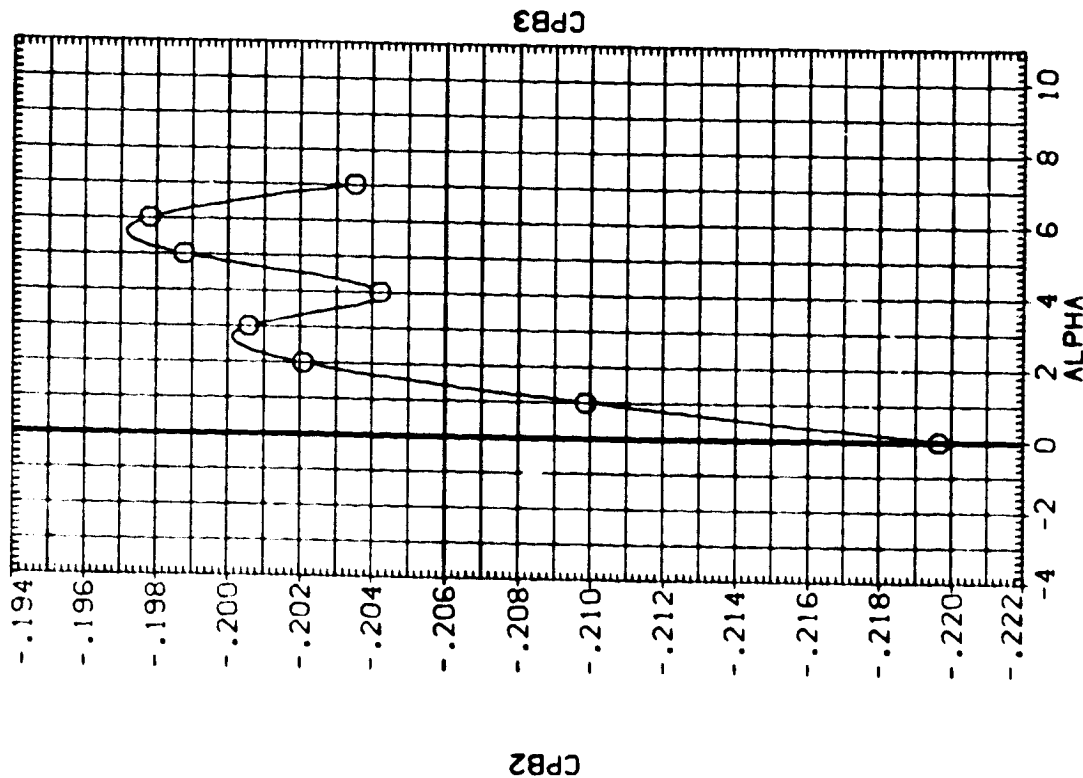


FIG.5 ORBITER ISOLATED BASE AND CAVITY PRESSURES

(A)MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(CE9A05) ○ ARC14-080-1 CA23 04S (ORBITER ISOLATED)

BETA0 ELV-0 AIL-0 RUD-0
.000 5.000 -10.000 .000

REFERENCE INFORMATION
SREF 2890.0000 SQ.FT.
LREF 474.6100 IN.
BREF 936.6800 IN.
XMRP 1109.0000 IN. X0
YMRP .0000 IN. Y0
ZMRP 375.0000 IN. Z0
SCALE .0125

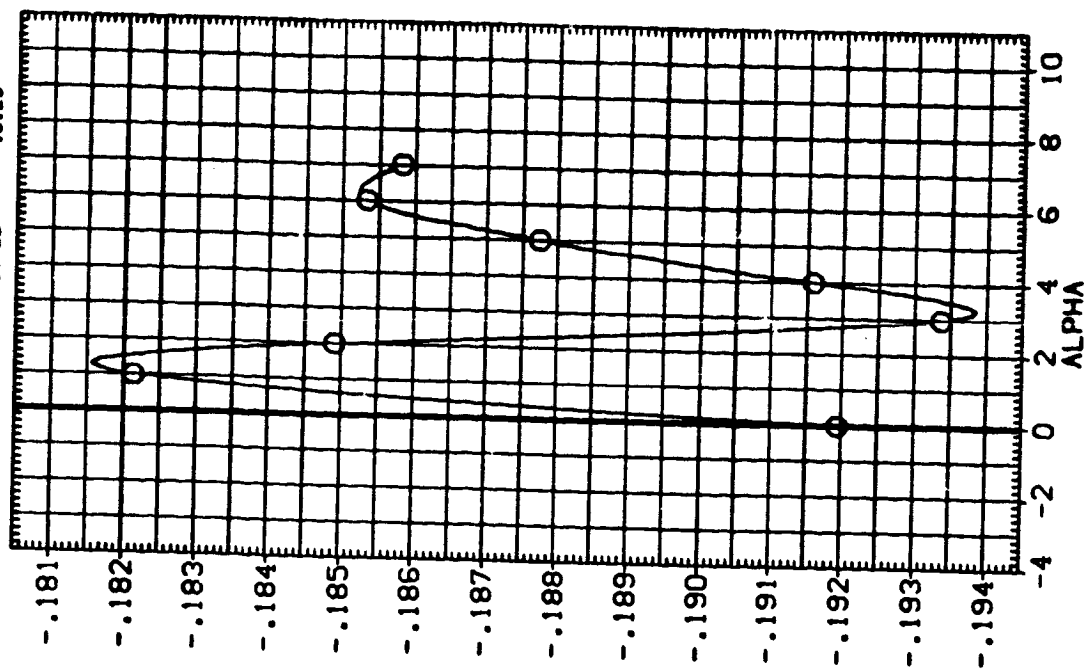
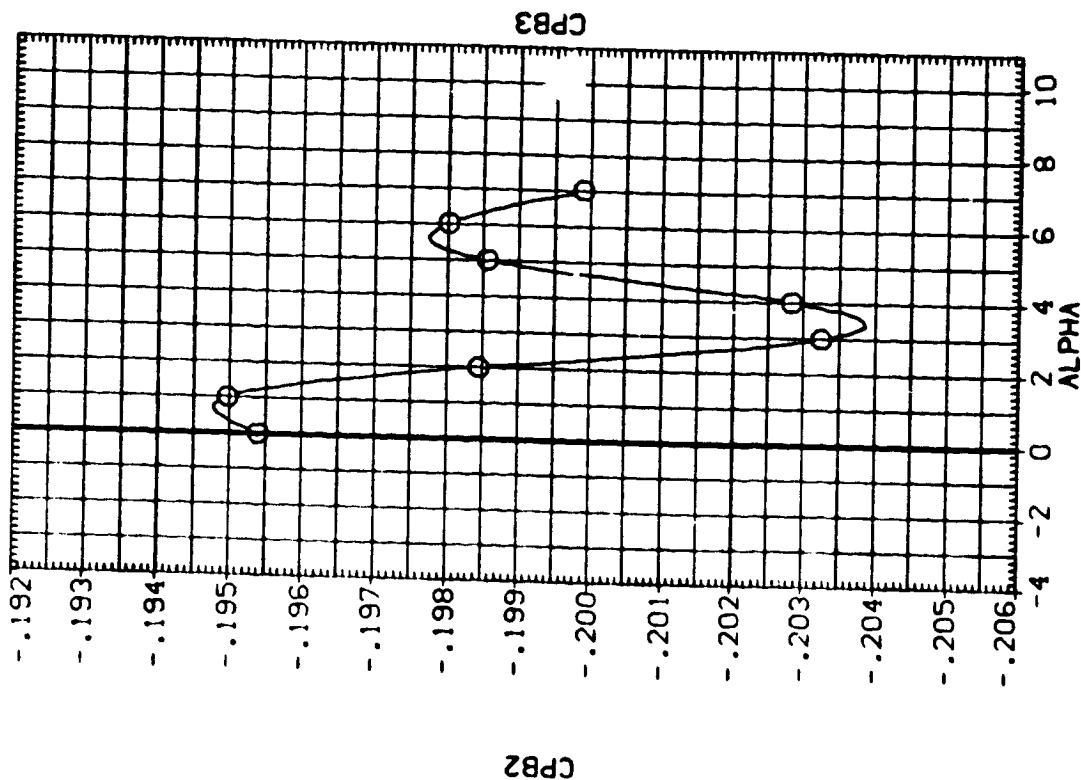


FIG.5 ORBITER ISOLATED BASE AND CAVITY PRESSURES

(A)MACH = .60



DATA SET SYMBOL (CE9A07) ○ CONFIGURATION DESCRIPTION ARC14-080-1 CA23 04S (ORBITER ISOLATED)

BETA0 .000 ELV-0 .000 AIL-0 .000 RU0-0 .000
 REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 474.8100 IN.
 BREF 936.6800 IN.
 YMRP 1109.0000 IN. Y0
 YMRP 375.0000 IN. Z0
 ZMRP .0125
 SCALE

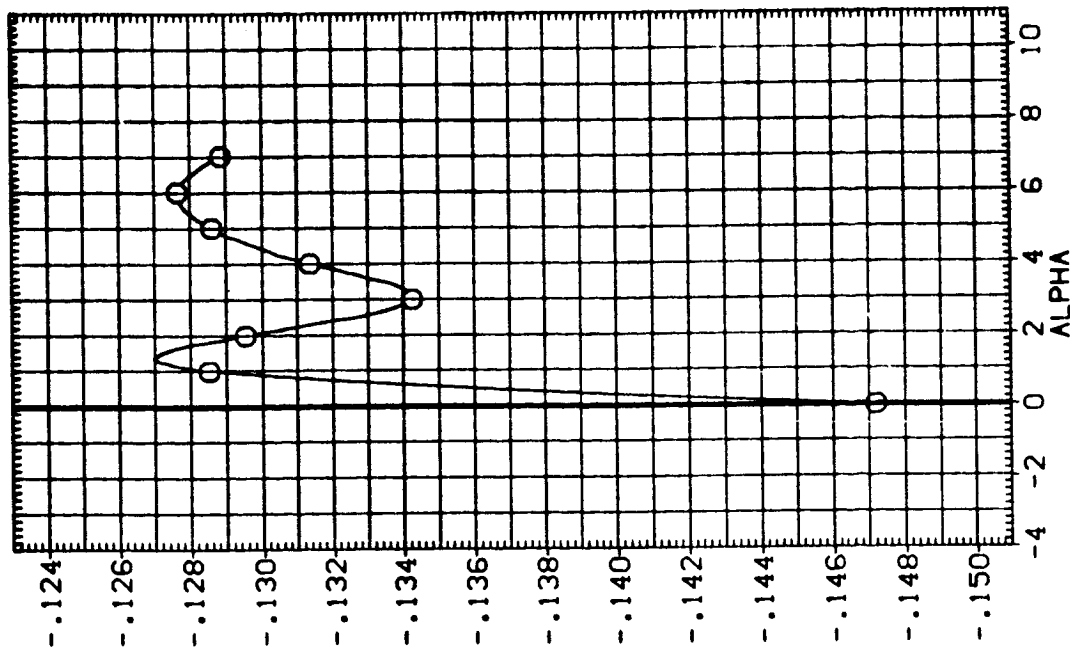
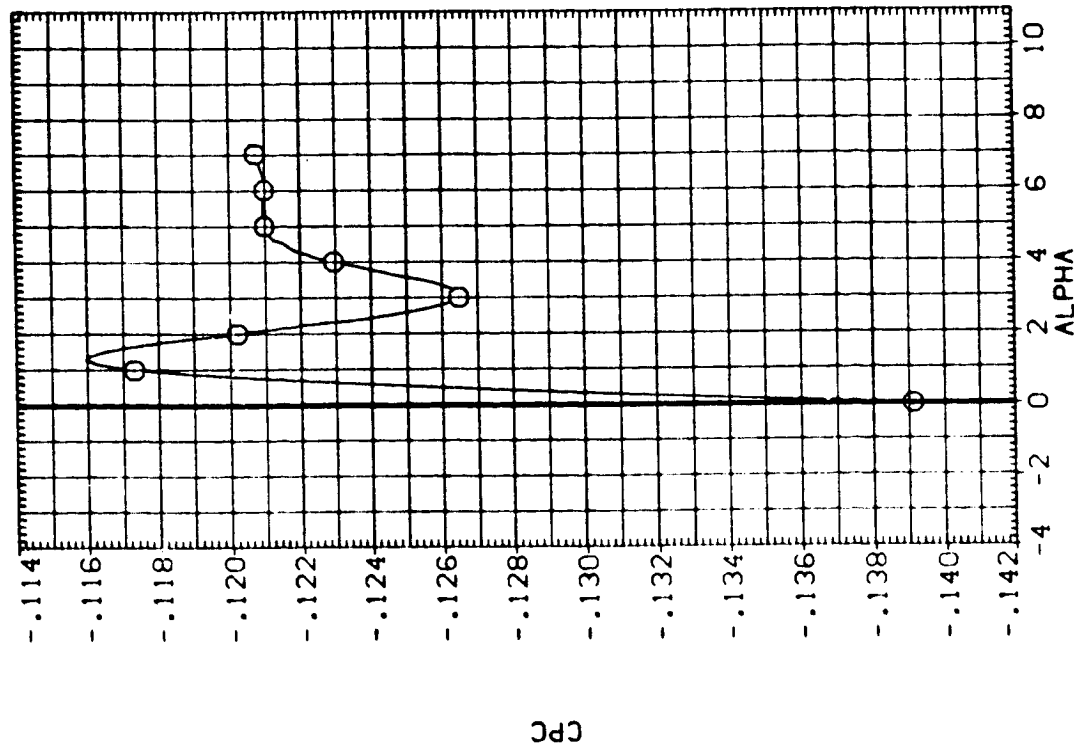


FIG.5 ORBITER ISOLATED BASE AND CAVITY PRESSURES
 (A)MACH = .60

DATA SET SYMBOL (CE9A07) ○ CONFIGURATION DESCRIPTION ARC14-080-1 CA23 045 (ORBITTER ISOLATED)

BETA-D .000 ELV-D .000 AIL-D .000 RUO-D .000
 REFERENCE INFORMATION
 SREF 2690.0000 SO.FT. IN.
 LREF 474.8100 IN.
 BREF 936.6800 IN.
 XMRP 1109.0000 IN. X0
 YMRP .0000 IN. Y0
 ZMRP 375.0000 IN. Z0
 SCALE .0125

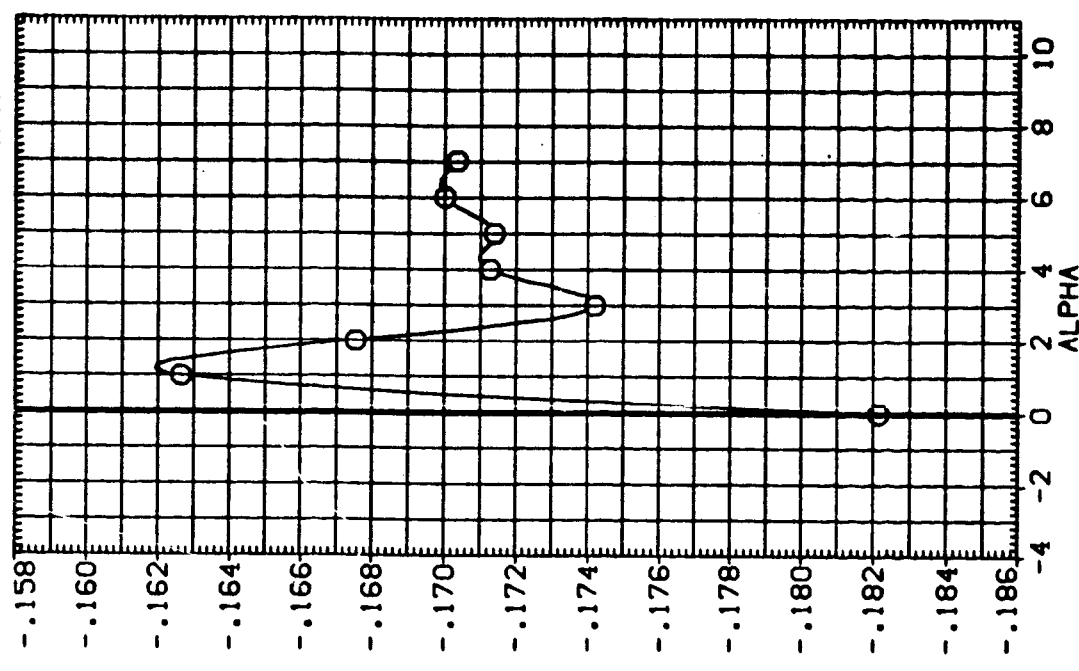
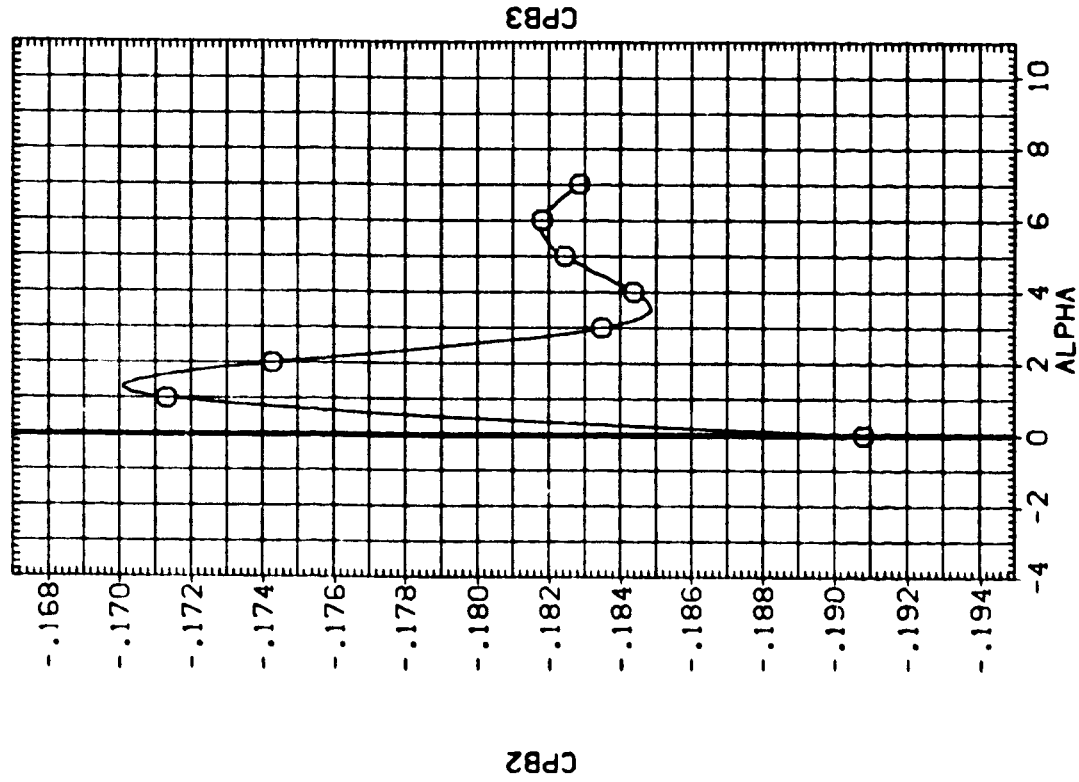


FIG.5 ORBITTER ISOLATED BASE AND CAVITY PRESSURES

(A) MACH = .60



DATA SET SYMBOL (CE9A08) ○ CONFIGURATION DESCRIPTION ARC14-080-1 CA23 045 (ORBITER ISOLATED)

BETA0 ELV-0 AIL-0 RUO-0
-5.000 5.000 .000 .000

REFERENCE INFORMATION
SREF 2690.0000 SQ.FT.
LREF 474.8100 IN.
SREF 936.6800 IN.
XMRP 1109.0000 IN. X0
YMRP 375.0000 IN. Y0
ZMRP 375.0000 IN. Z0
SCALE .0125

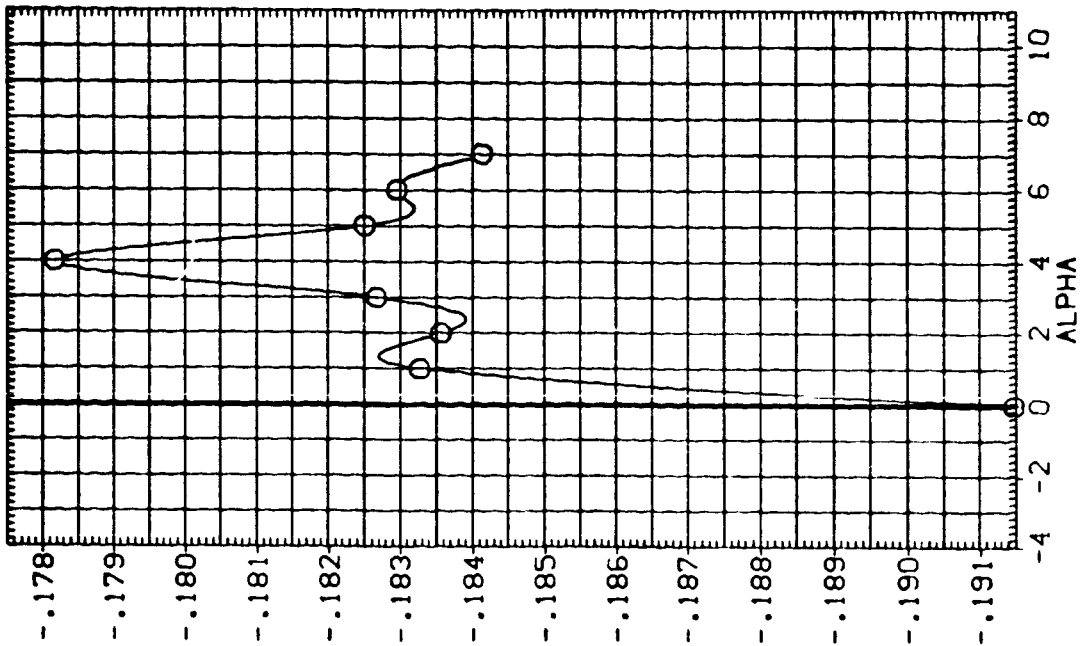
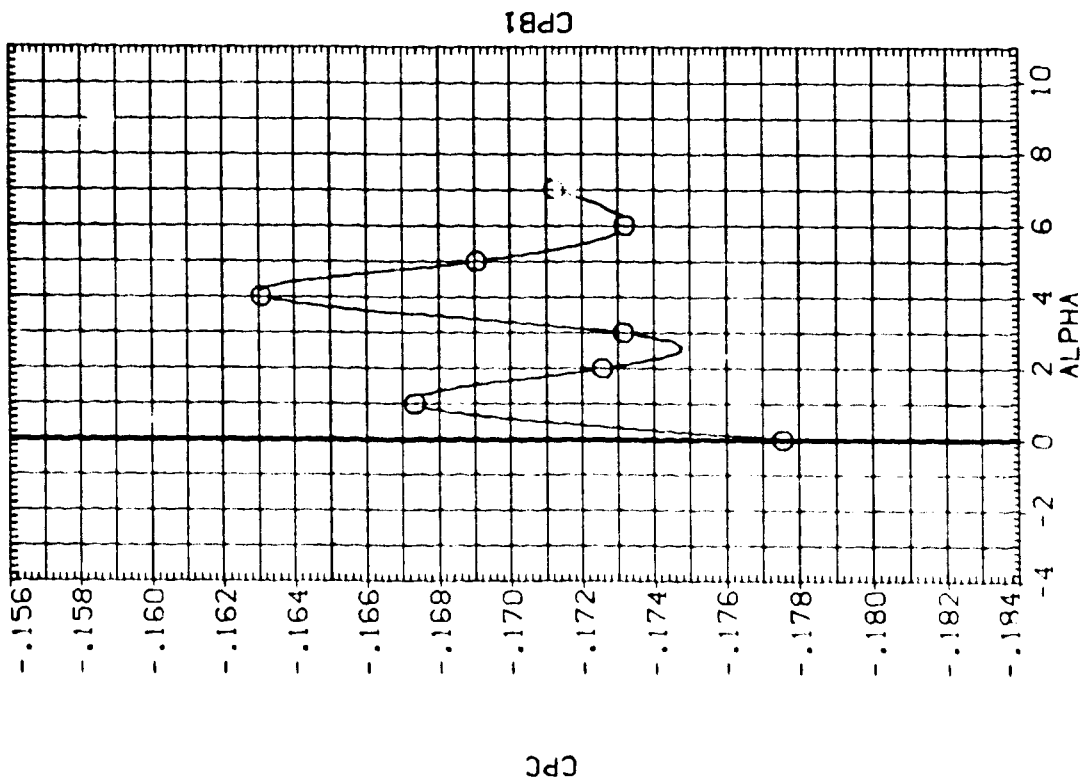


FIG.5 ORBITER ISOLATED BASE AND CAVITY PRESSURES

(A)MACH = .60

DATA SET SYMBOL (CESA08) \bigcirc CONFIGURATION DESCRIPTION (ARC14-080-1 CA23 04S (ORBITER ISOLATED))

BETA0 ELV-0 AIL-0 RUD-0
-5.000 5.000 .000

REFERENCE INFORMATION
SREF 2690.0000 SQ.FT.
LREF 474.8100 IN.
BREF 936.6800 IN.
XMRP 1109.0000 IN. X0
YMRP .0000 IN. Y0
ZMRP 375.0000 IN. Z0
SCALE .0125

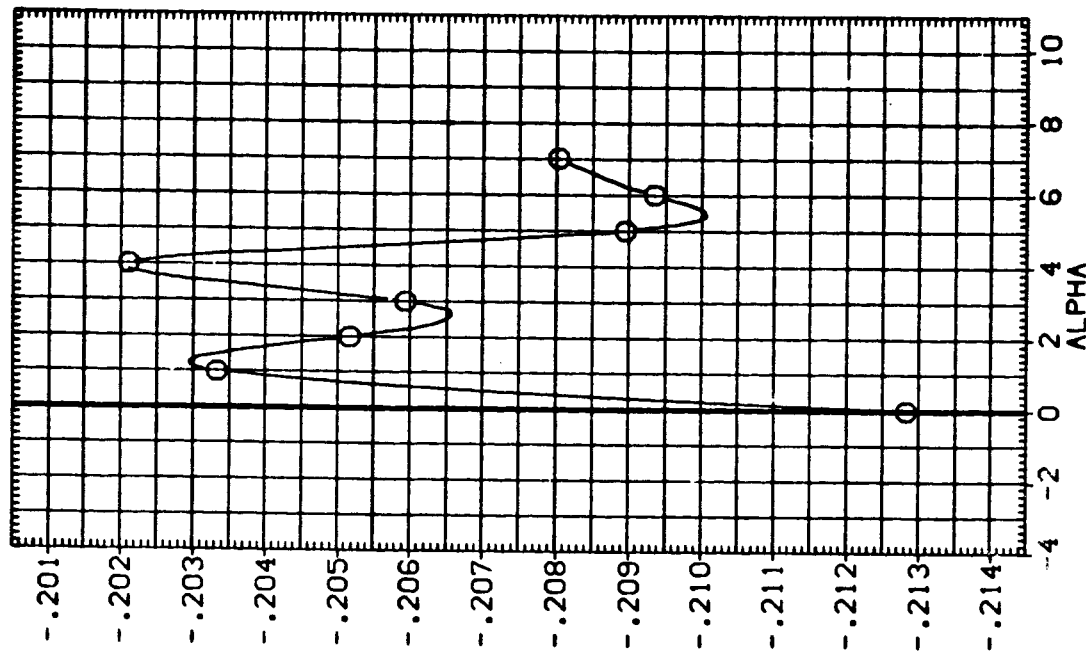
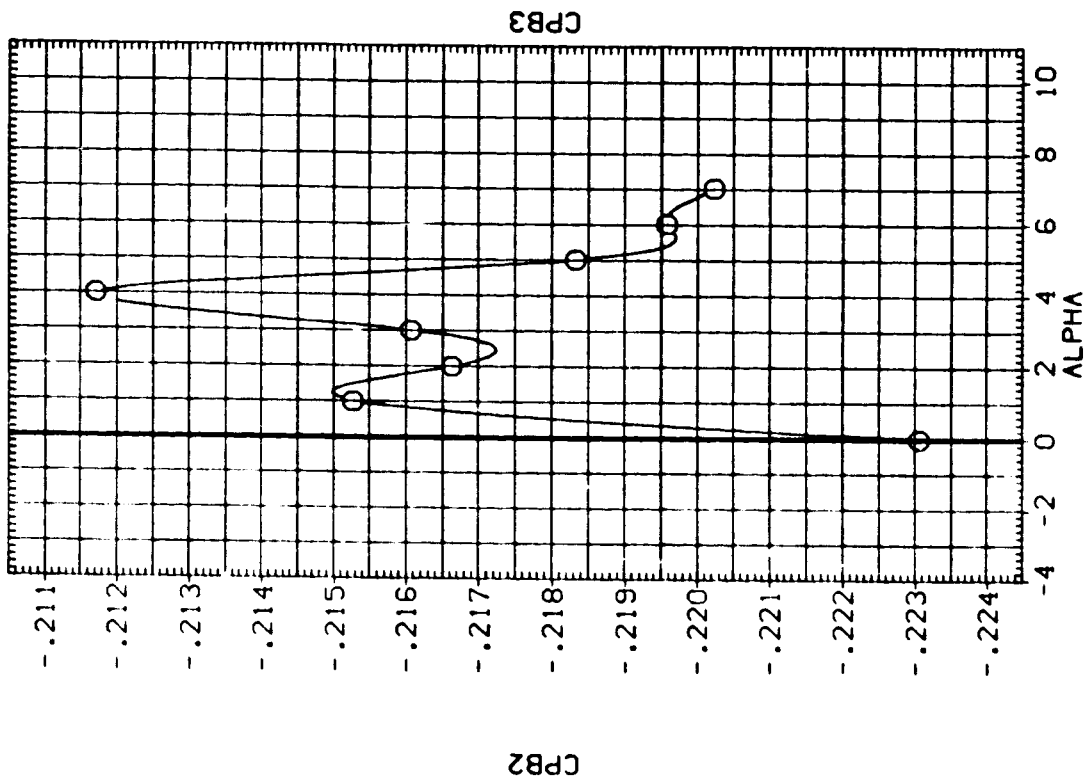


FIG.5 ORBITER ISOLATED BASE AND CAVITY PRESSURES

(A) MACH = .60

DATA SET SYMBOL
(OE9C47)
(OE9C24)
(OE9C37)

CONFIGURATION DESCRIPTION

ARC14-080-1 CA23 747/1 01 AT1 (ORB MATED)
ARC14-080-1 CA23 747/1 01 AT1 (ORB MATED)
ARC14-080-1 CA23 747/1 01 AT1 (ORB MATED)

STAB-C RUJ-C ELV-0 IARRB

5.000 .000 5.000 4.000
5.000 .000 5.000 6.000
5.000 .000 5.000 8.000

REFERENCE INFORMATION
SREF 2690.0000 50.FT.
LREF 474.8100 IN.
BREF 936.6800 IN.
XRRP 1109.0000 IN. X0
YRRP 375.0000 IN. Y0
ZRRP 375.0000 IN. Z0
SCALE .0125

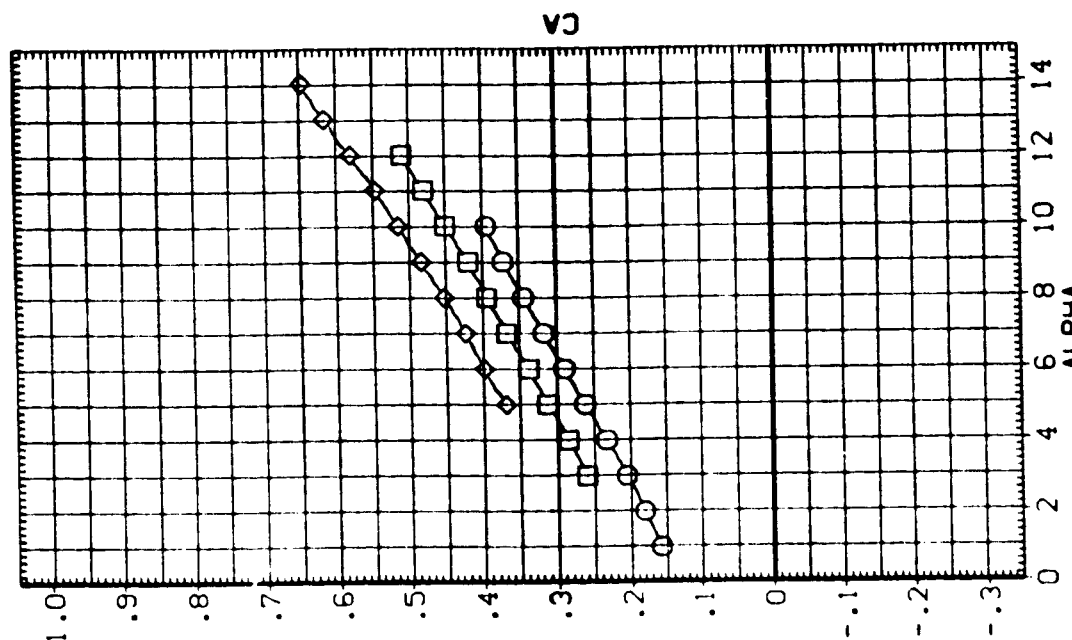
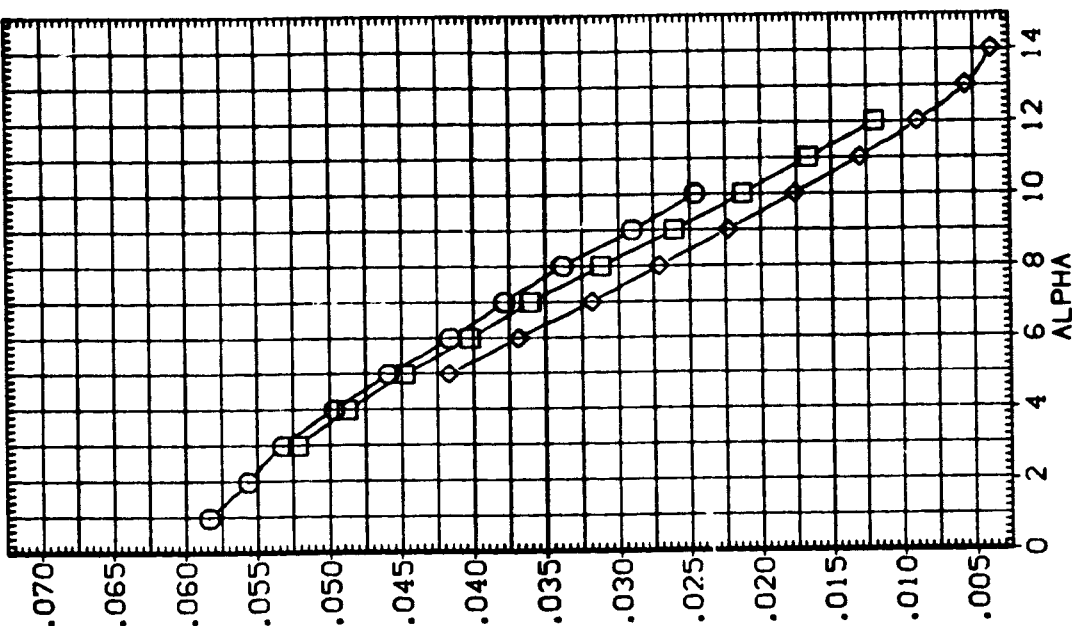


FIG.6 ORBITER MATED AERO CHARACTERISTICS (INTERPOLATED I-ORB)

(A)MACH = .60

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	STAB-C	RUD-C	ELV-0	IADRB	REFERENCE INFORMATION	SO.FT.
(09047)	ARC14-08C-1 CA23 747/1 01 AT1 (ORB MATED)	5.000	.000	5.000	4.000	SREF	2690.0000
(09047)	ARC14-08C-1 CA23 747/1 01 AT1 (ORB MATED)	5.000	.000	5.000	6.000	LREF	474.8100
(09047)	ARC14-08C-1 CA23 747/1 01 AT1 (ORB MATED)	5.000	.000	5.000	8.000	BREF	936.6800
(09047)	ARC14-08C-1 CA23 747/1 01 AT1 (ORB MATED)					XMRP	1109.0000
(09047)						YMRP	375.0000
(09047)						ZMRP	375.0000
						SCALE	.0125

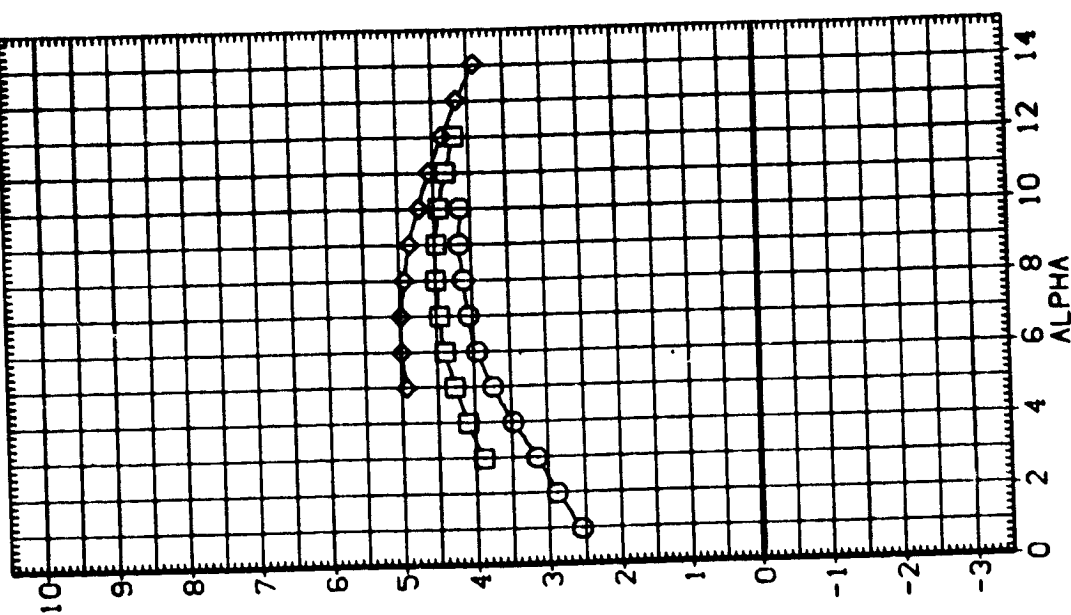


FIG.6 ORBITER MATED AERO CHARACTERISTICS (INTERPOLATED I-ORB)

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	STAB-C	RUD-C	ELV-0	IAORB	REFERENCE INFORMATION
(DE9C47)	ARC14-080-1 CA23 747/1 01 AT1 (ORB MATED)	5.000	.000	5.000	4.000	SREF 2690.0000 90.FT.
(DE9C24)	ARC14-080-1 CA23 747/1 01 AT1 (ORB MATED)	5.000	.000	5.000	6.000	LREF 474.8100 IN.
(DE9C37)	ARC14-080-1 CA23 747/1 01 AT1 (ORB MATED)	5.000	.000	5.000	8.000	BREF 936.6800 IN.
						XMRP 1109.0000 IN. M0
						YMRP .0000 IN. Y0
						ZMRP 375.0000 IN. Z0
						SCALE .0125

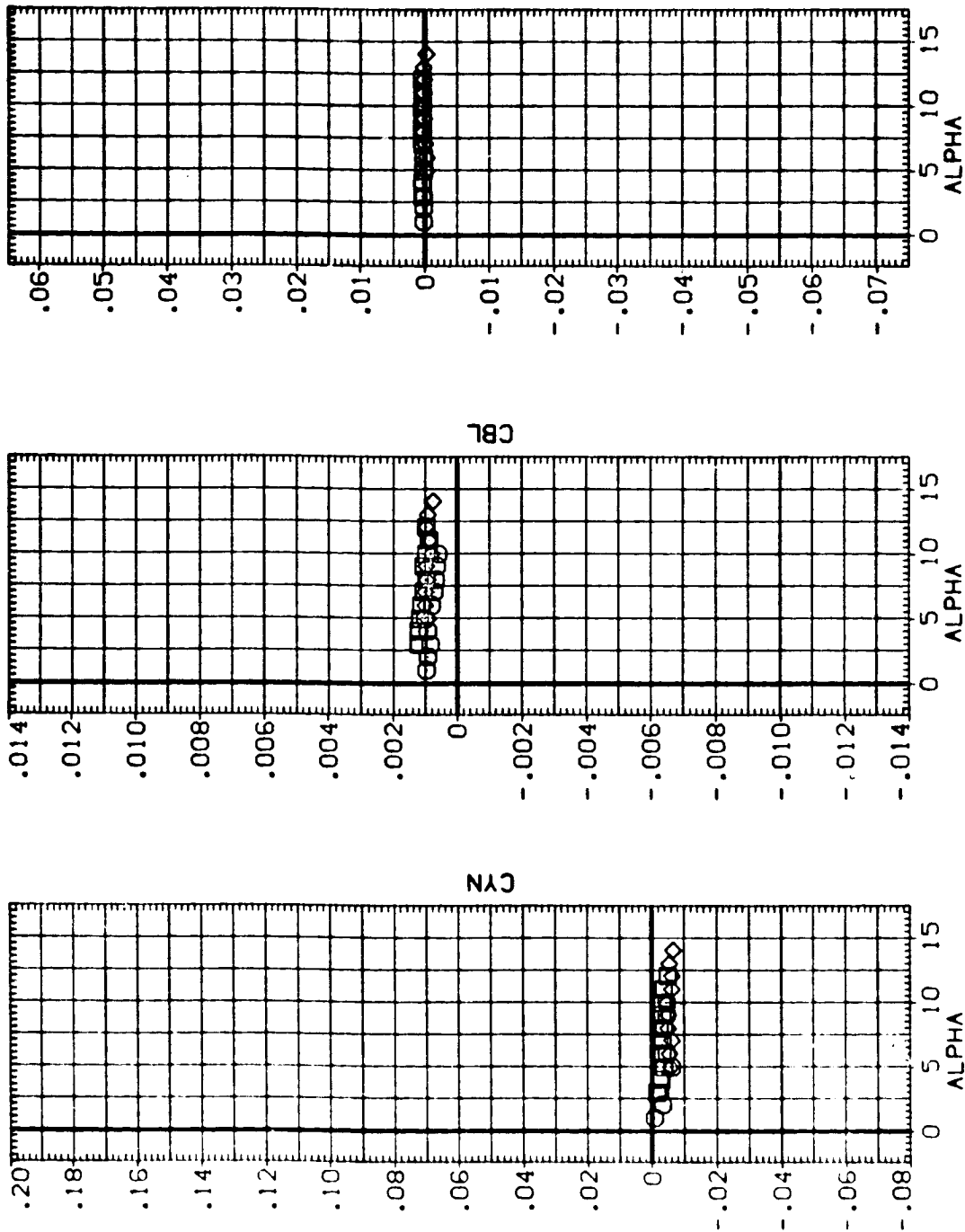


FIG.6 ORBITER MATED AERO CHARACTERISTICS (INTERPOLATED I-ORB)

(A)MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(359047) ARC14-080-1 CA23 747/1 01 AT1 (ORB MATED)
 (059024) ARC14-080-1 CA23 747/1 01 AT1 (ORB MATED)
 (239037) ARC14-080-1 CA23 747/1 01 AT1 (ORB MATED)

STAB-C RUO-C ELV-0 IASRB
 5.000 .000 5.000 4.000
 5.000 .000 5.000 6.000
 5.000 .000 5.000 8.000

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 474.8100 IN.
 BREF 936.6800 IN.
 XMRP 1109.0000 IN.
 YMRP .0000 IN.
 ZMRP 375.0000 IN.
 SCALE .0125

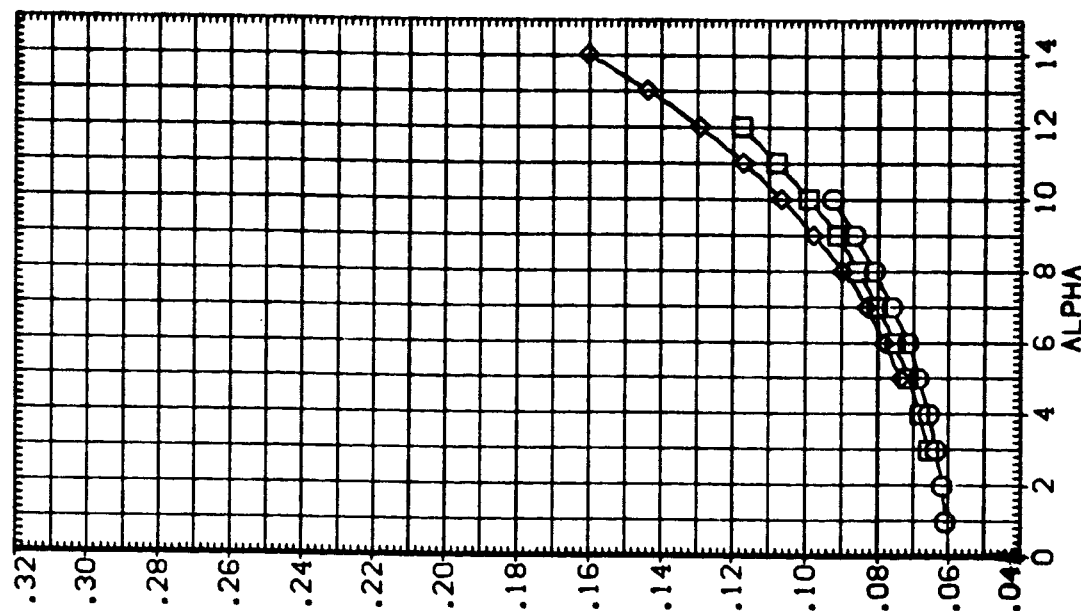
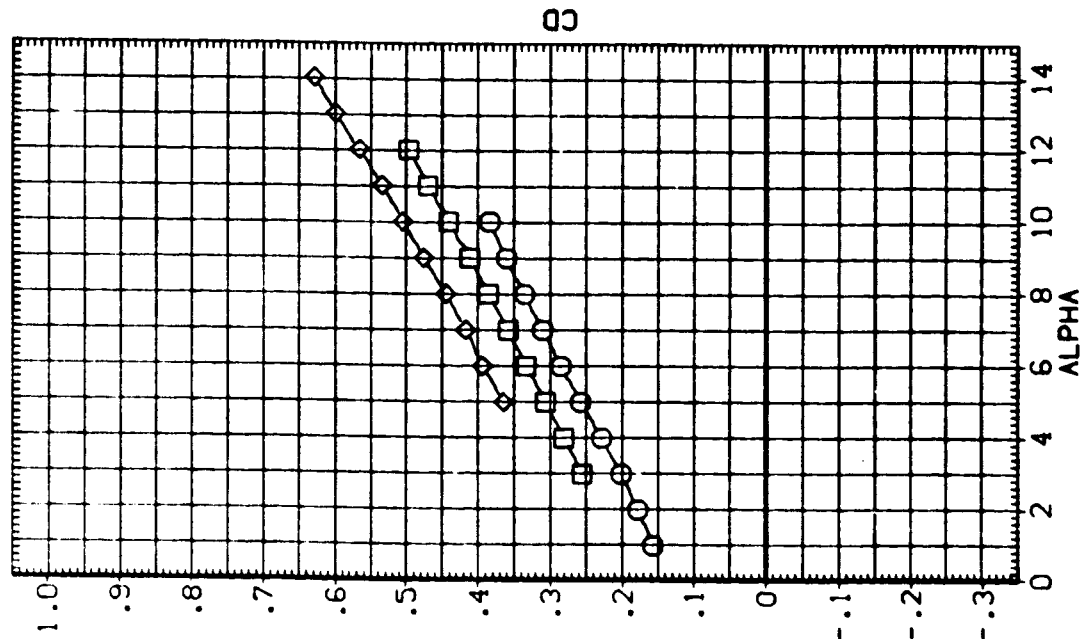


FIG.6 ORBITER MATED AERO CHARACTERISTICS (INTERPOLATED I-ORB)

(A)MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(DE9C48) ARC 14-080-1 CA23 747/1 01 AT1 (ORB MATED)
 (DE9C27) ARC 14-080-1 CA23 747/1 01 AT1 (ORB MATED)
 (DE9C38) ARC 14-080-1 CA23 747/1 01 AT1 (ORB MATED)

STAB-C RUO-C ELV-0 IAOB8
 5.000 10.000 5.000 4.000
 5.000 10.000 5.000 6.000
 5.000 10.000 5.000 8.000

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 474.8100 IN.
 BREF 936.6800 IN.
 XMRP 1109.0000 IN. 28
 YMRP .0000 IN. 28
 ZMRP 375.0000 IN. 28
 SCALE .0125

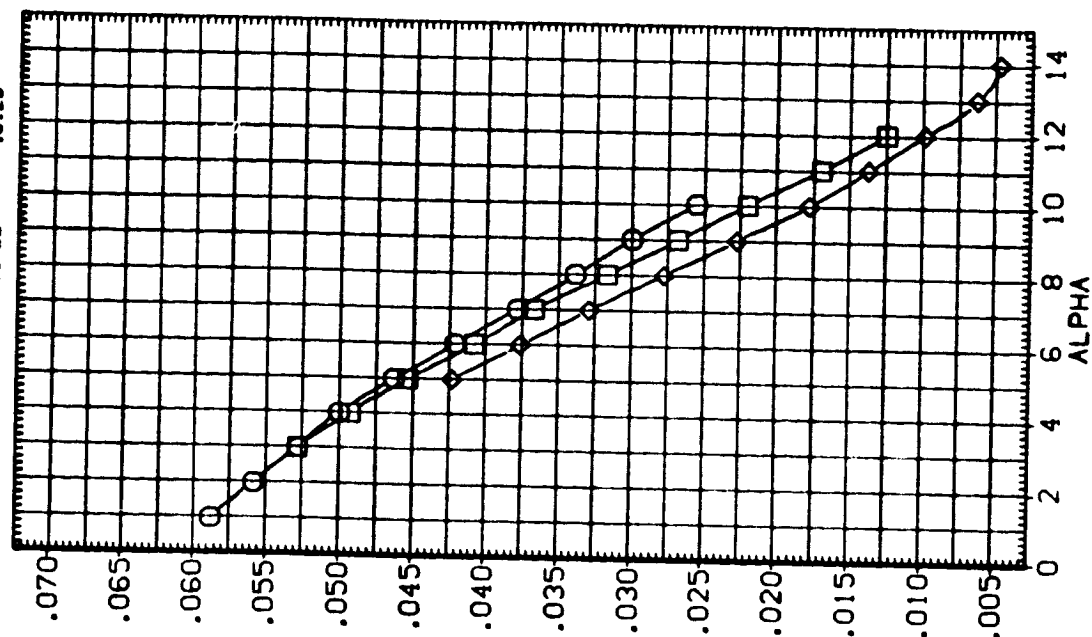
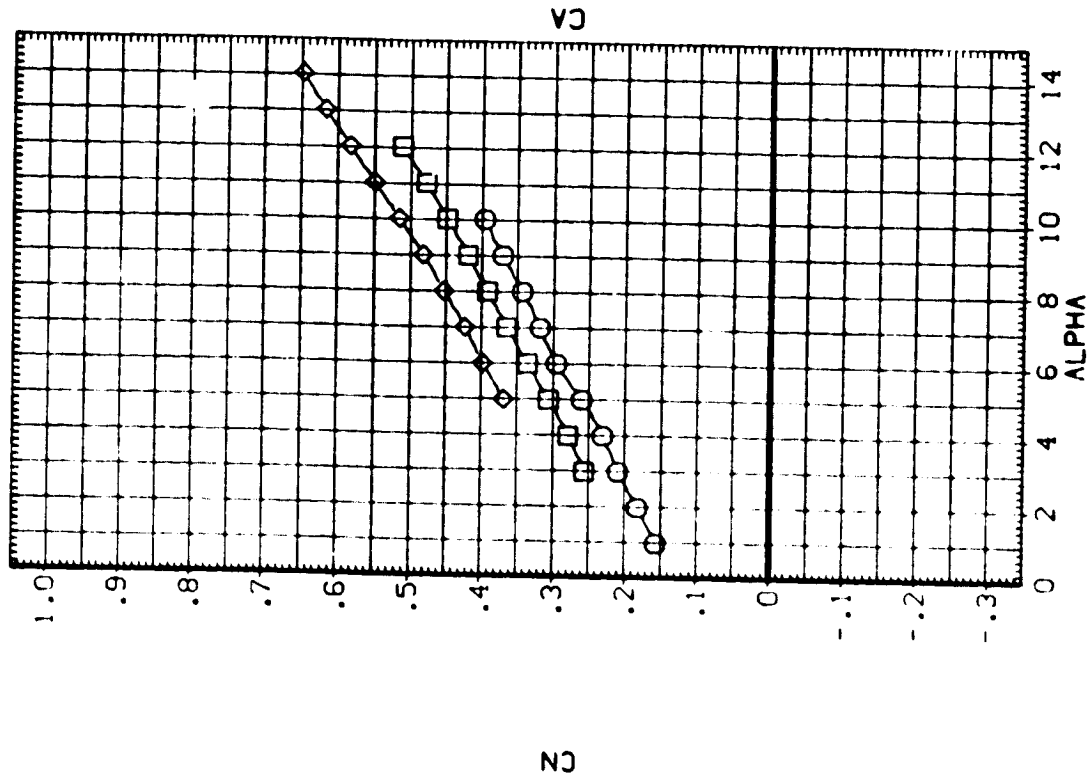


FIG.6 ORBITER MATED AERO CHARACTERISTICS (INTERPOLATED I-ORB)

(A)MACH = .60

STAB-C	RUD-C	ELV-B	IADRB	REFERENCE INFORMATION	\$0. FT.
5.000	10.000	5.000	4.000	SREF	2690.0000
5.000	10.000	5.000	6.000	LREF	474.8100
5.000	10.000	5.000	8.000	BREF	936.6800
				XMRP	1109.0000
				YMRP	.0000
				ZMRP	3795.0000
				SCALE	.0125

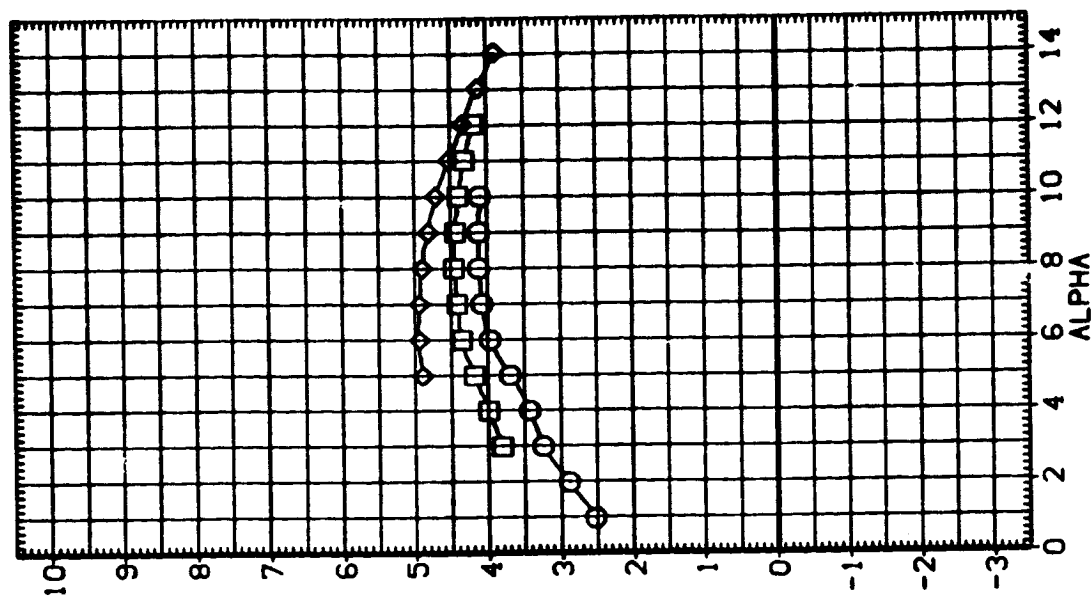
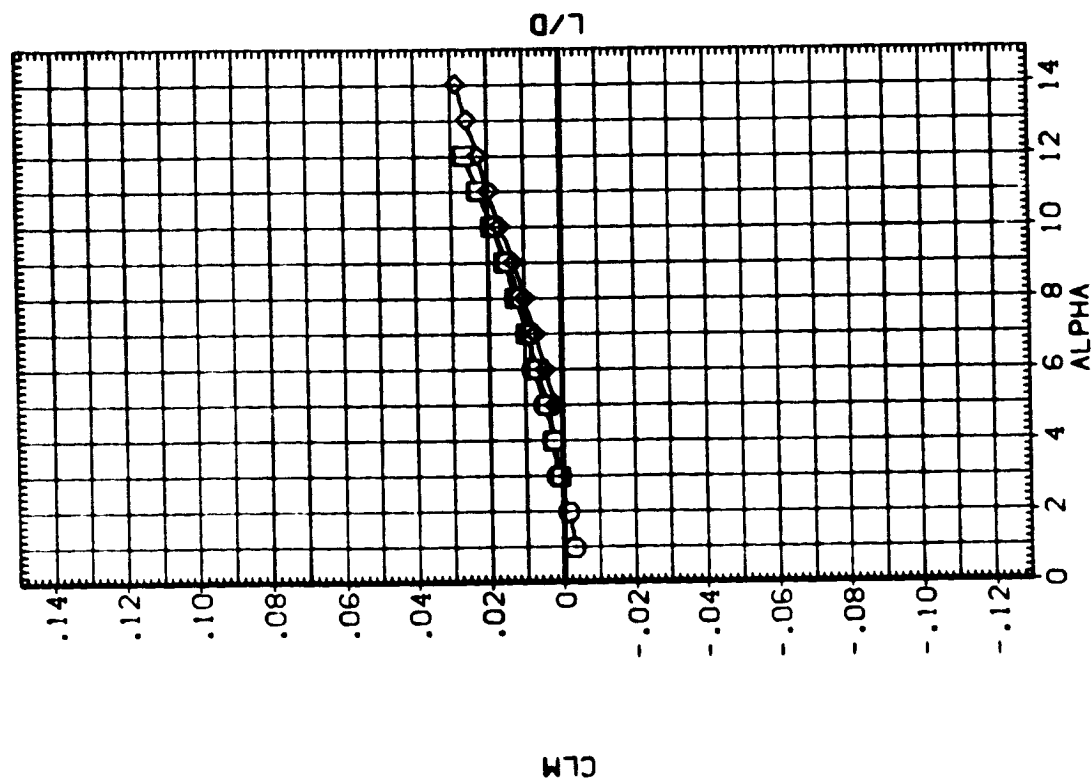


FIG. 6 ORBITER MATED AERO CHARACTERISTICS (INTERPOLATED 1-ORB)

$$(A)MACH = .60$$

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	STAB-C	RUD-C	ELV-0	IAOR0	REFERENCE INFORMATION
(DE9C49)	ARC14-C80-1 CA23 747/1 01 AT1 (0RB MATED)	5.000	10.000	5.000	4.000	SREF 2690.0000 50.000
(DE9C27)	ARC14-C80-1 CA23 747/1 01 AT1 (0RB MATED)	5.000	10.000	5.000	6.000	LREF 474.8100 IN.
(DE9C38)	ARC14-C80-1 CA23 747/1 01 AT1 (0RB MATED)	5.000	10.000	5.000	8.000	BREF 926.6800 IN.
						XMRP 1109.0000 IN. 10
						YMRP .0000 IN. 10
						ZMRP 375.0000 IN. 20
						SCALE .0125

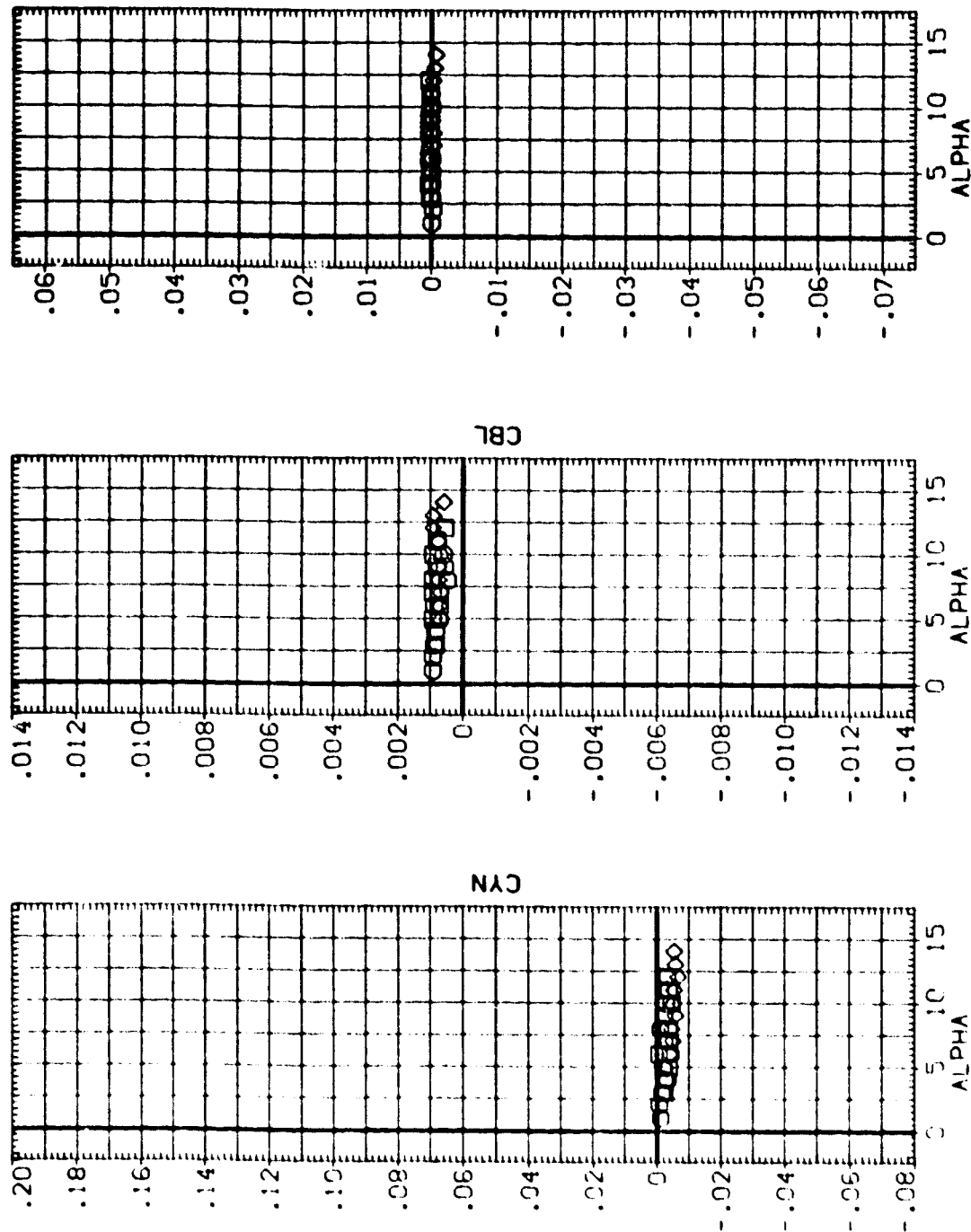


FIG.6 C88.7EP MATED AERO CHARACTERISTICS (INTERPOLATED I-0RB)

(A)MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(069045) ARC14-080-1 CA23 747/1 01 ATI (ORB MATED)
 (069047) ARC14-080-1 CA23 747/1 01 ATI (ORB MATED)
 (069049) ARC14-080-1 CA23 747/1 01 ATI (ORB MATED)

STAB-C RUO-C ELV-B IAOB
 5.000 10.000 5.000 4.000
 5.000 10.000 5.000 6.000
 5.000 10.000 5.000 8.000

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 474.8100 IN.
 BREF 936.6800 IN.
 XMRP 1109.0000 IN.
 YMRP 0.0000 IN.
 ZMRP 375.0000 IN.
 SCALE .0125

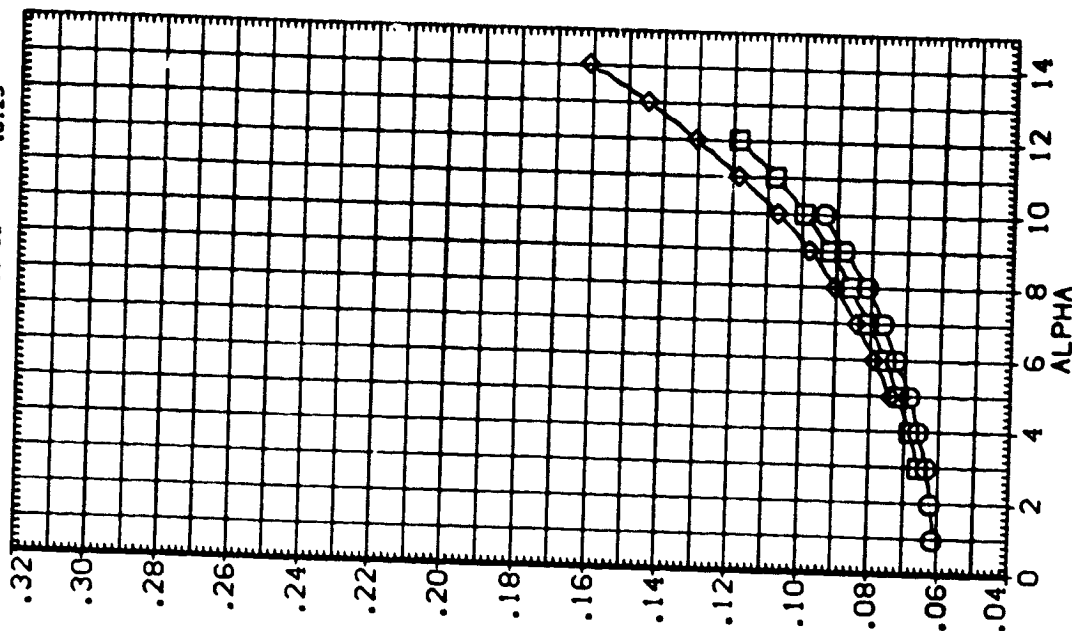
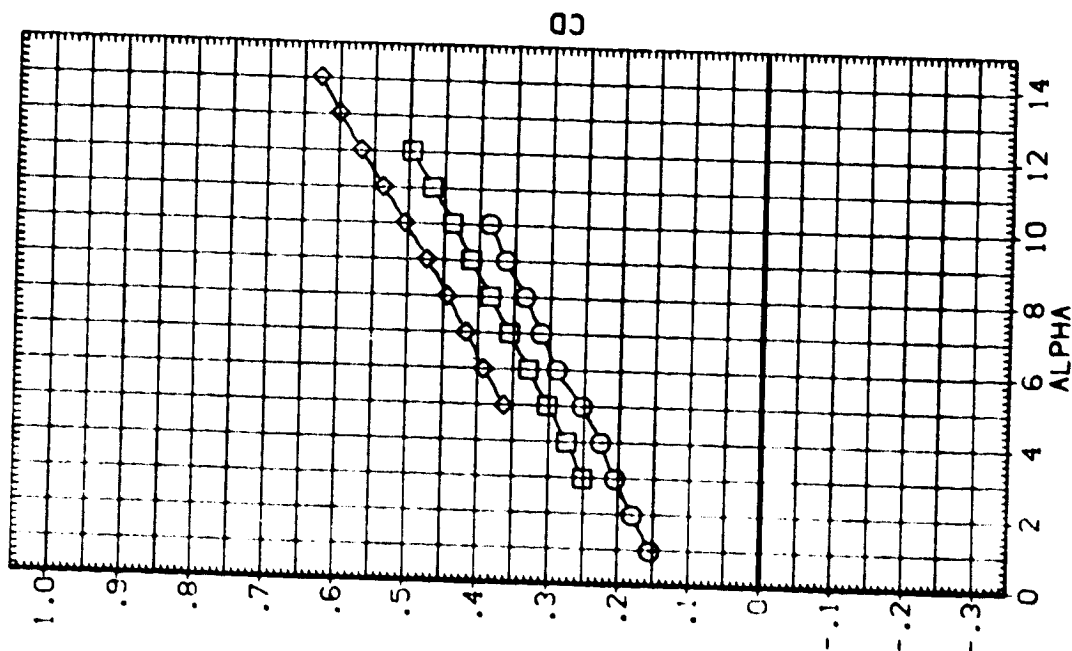


FIG.6 ORBITER MATED AERO CHARACTERISTICS (INTERPOLATED I-ORB)

(A)MACH = .60

DATA SET SYMBOL
(059C49)
(059C29)
(059C39)

CONFIGURATION DESCRIPTION
ARC14-080-1 CA23 747/1 01 AT1 (ORB MATED)
ARC14-080-1 CA23 747/1 01 AT1 (ORB MATED)
ARC14-080-1 CA23 747/1 01 AT1 (ORB MATED)

STAB-C RUO-C ELV-B IAOB
-1.000 .000 5.000 4.000
-1.000 .000 5.000 6.000
-1.000 .000 5.000 8.000

REFERENCE INFORMATION
SREF 2690.0000 SQ.FT.
LREF 474.8100 IN.
BREF 936.6800 IN.
XMRP 1109.0000 IN. Y0
YMRP .0000 IN. Y0
ZMRP 375.0000 IN. Z0
SCALE .0125

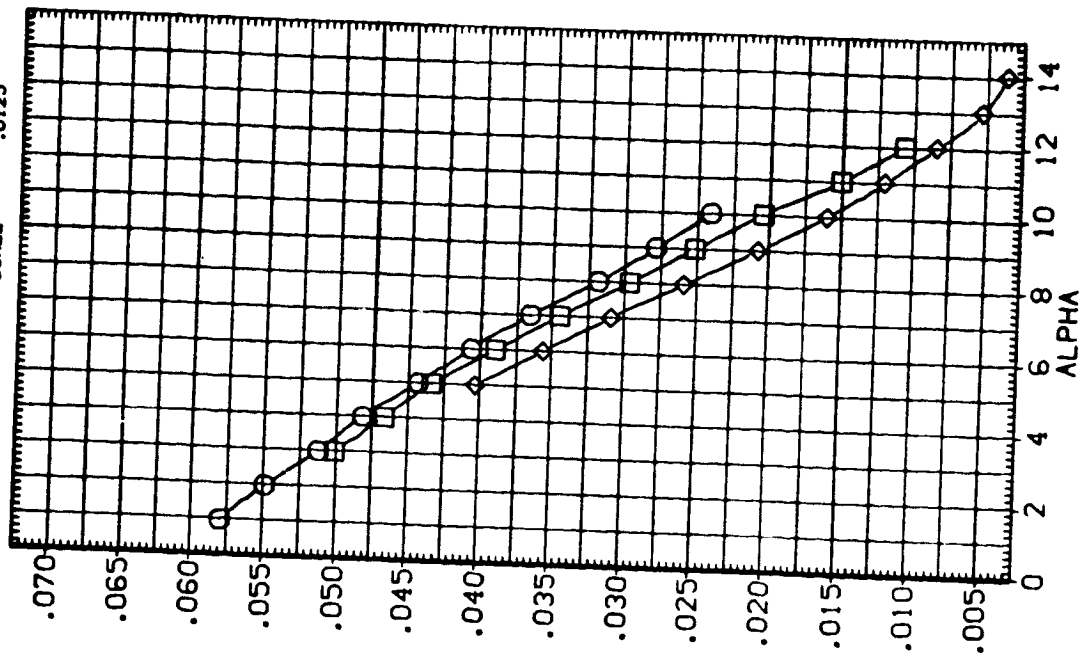
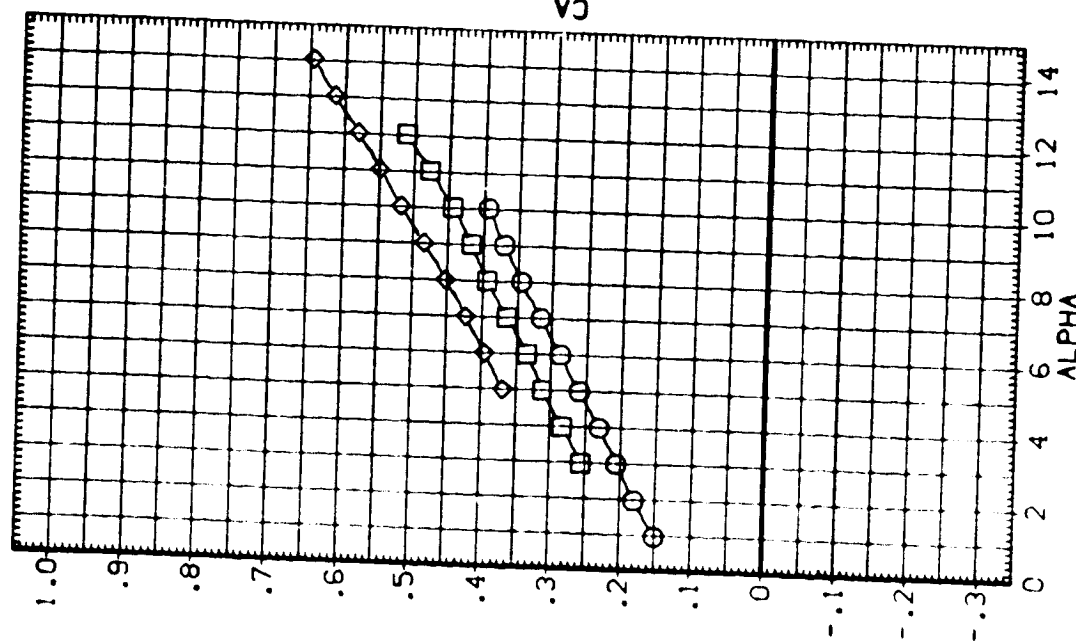


FIG.6 ORBITER MATED AERO CHARACTERISTICS (INTERPOLATED I-ORB)
(A)MACH = .60

REPRODUCIBILITY OF THE
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DATA SET SYMBOL

CONFIGURATION DESCRIPTION

ARC14-080-1 CA23 747/1 01 AT1 (ORB MATED)
 ARC14-080-1 CA23 747/1 01 AT1 (ORB MATED)
 ARC14-080-1 CA23 747/1 01 AT1 (ORB MATED)

STAB-C
 -1.000
 -1.000
 -1.000

RUD-C
 .000
 .000
 .000

ELV-B
 5.000
 5.000
 5.000

IADRB
 4.000
 6.000
 8.000

REFERENCE INFORMATION
 SREF 2690.0000 50.FT.
 LREF 474.8100 IN.
 BREF 936.6800 IN.
 XTRP 1109.0000 IN. X0
 YTRP .0000 IN. Y0
 ZTRP 375.0000 IN. Z0
 SCALE .0125

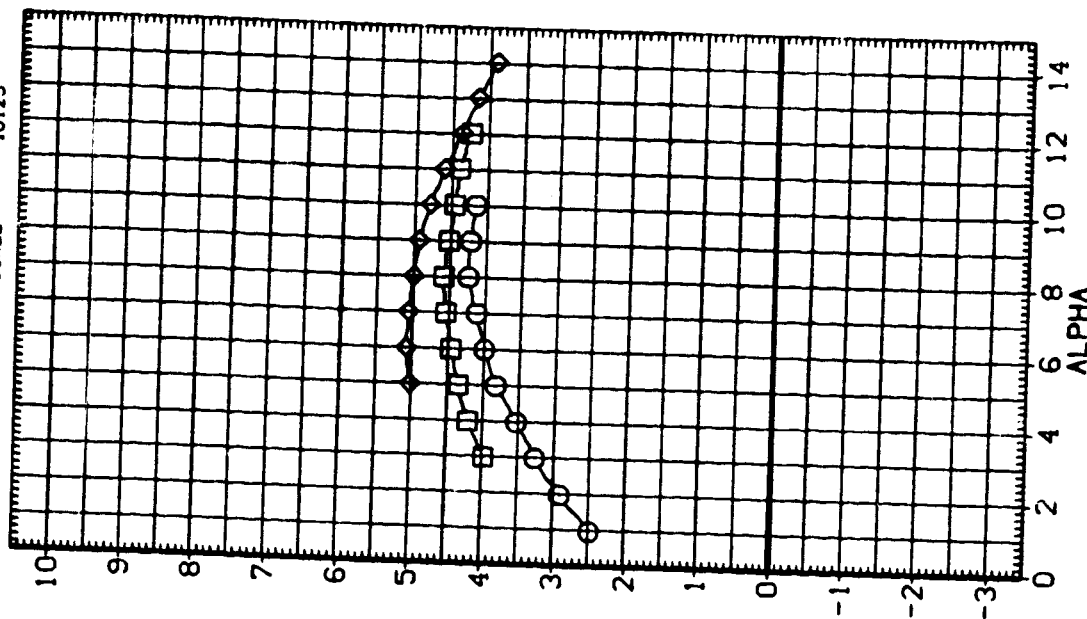
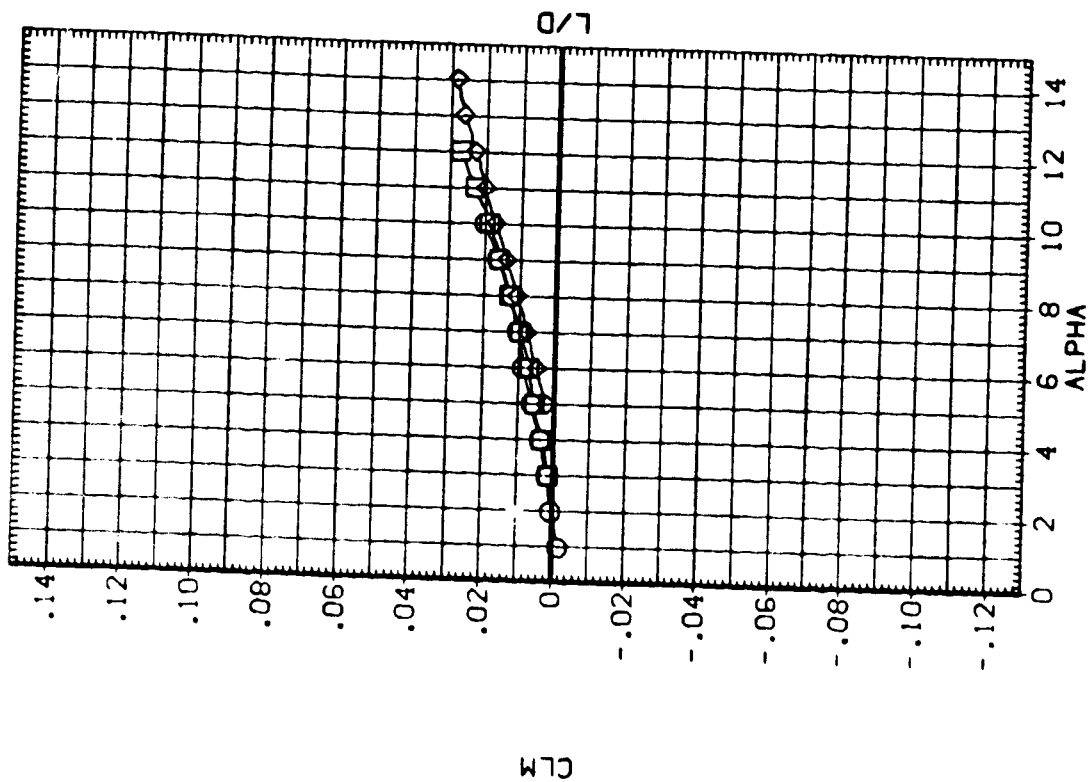


FIG.6 ORBITER MATED AERO CHARACTERISTICS (INTERPOLATED I-ORB)

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	STAB-C	RUD-C	ELV-O	I-OR8	REFERENCE INFORMATION
(CE9C49)	ARC14-080-1 CA23 747/1 01 AT1 (ORB MATED)	-1.000	.000	5.000	4.000	SREF 2690.0000 SO.FT.
(CE9C29)	ARC14-080-1 CA23 747/1 01 AT1 (ORB MATED)	-1.000	.000	5.000	6.000	LREF 474.8100 IN.
(CE9C39)	ARC14-080-1 CA23 747/1 01 AT1 (ORB MATED)	-1.000	.000	5.000	8.000	BREF 936.6800 IN. XB
						XMRP 1109.0000 IN. XB
						YMRP .0000 IN. YB
						ZMRP 375.0000 IN. ZB
						SCALE .0125

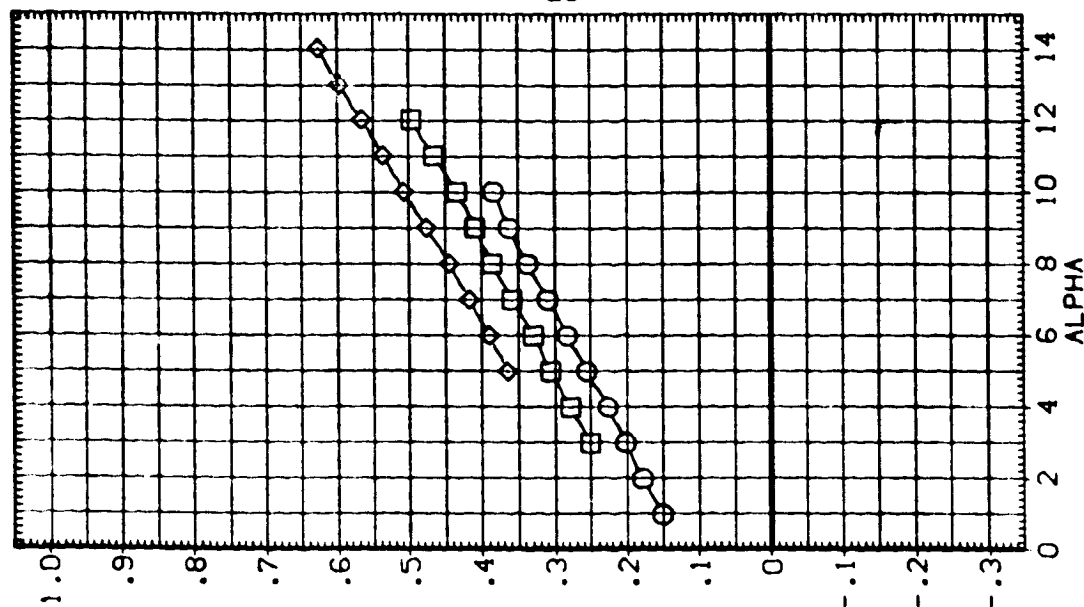
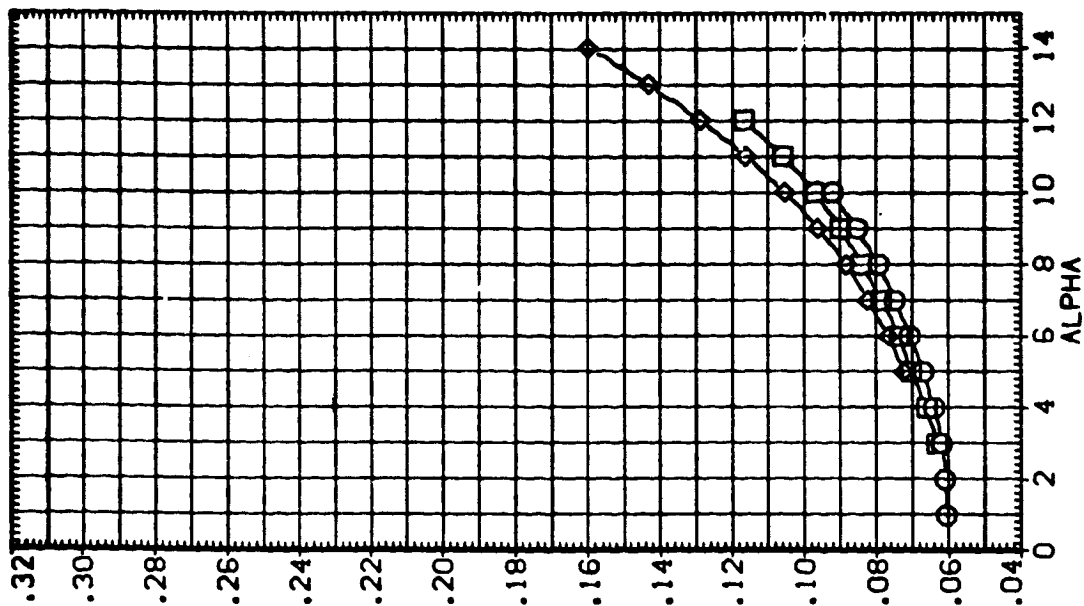


FIG.6 ORBITER MATED AERO CHARACTERISTICS (INTERPOLATED I-OR8)

(A)MACH = .60



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	STAB-C	RUD-C	ELV-0	IAOR8	REFERENCE INFORMATION
(OE9C50)	ARC14-080-1 CA23 747/1 01 ATI (ORB MATED)	-1.000	.000	10.000	4.000	SREF 2630.0000 SO.FT.
(OE9C30)	ARC14-080-1 CA23 747/1 01 ATI (ORB MATED)	-1.000	.000	10.000	6.000	LREF 474.8100 IN.
(OE9C40)	ARC14-080-1 CA23 747/1 01 ATI (ORB MATED)	-1.000	.000	10.000	8.000	BREF 936.6800 IN.
						XMRP 1109.0000 IN. X0
						YMRP .0000 IN. Y0
						ZMRP 375.0000 IN. Z0
						SCALE .0125

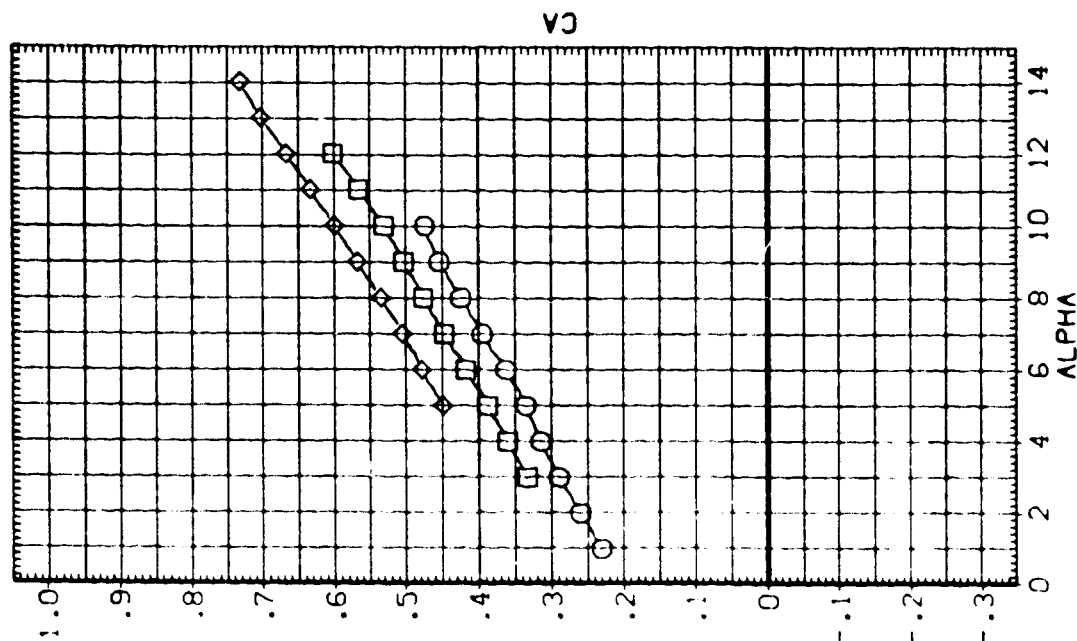
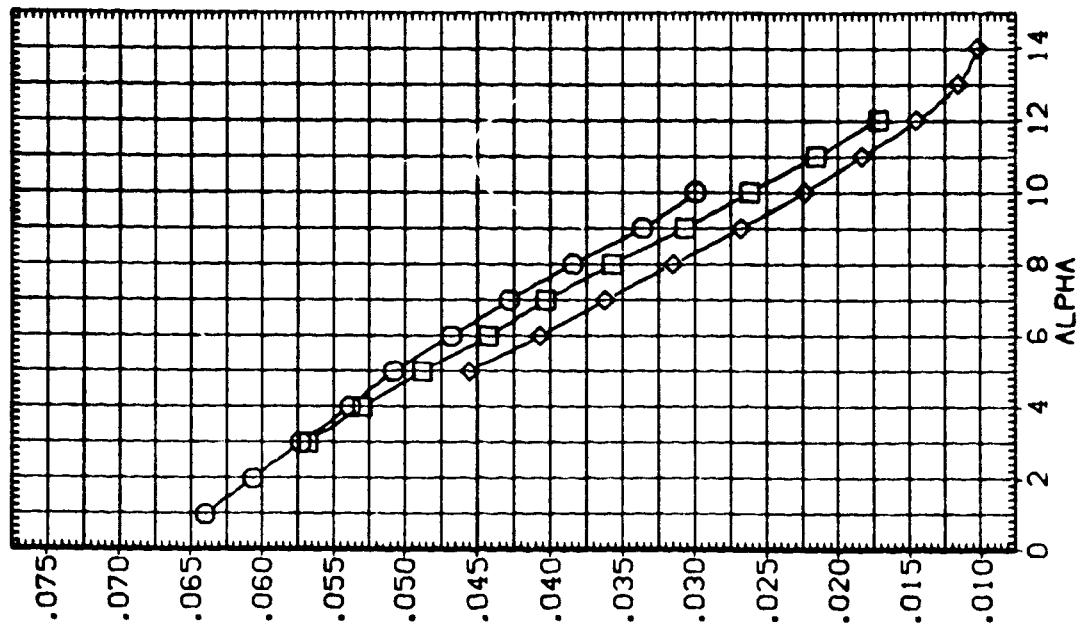


FIG.6 ORBITER MATED AERO CHARACTERISTICS (INTERPOLATED I-ORB)

(A)MACH = .60

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DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (09050) 0 ARC14 (00-1) CA23 747/1 01 AT1 (ORB MATED)
 (09050) 0 ARC14 (00-1) CA23 747/1 01 AT1 (ORB MATED)
 (09050) 0 ARC14 (00-1) CA23 747/1 01 AT1 (ORB MATED)

STAB-C RUD-C ELV-0 IAOB REFERENCE INFORMATION
 -1.000 .000 10.000 4.000 SREF 2690.0000 SQ.FT.
 -1.000 .000 10.000 6.000 LREF 474.8100 IN.
 .000 .000 10.000 8.000 BRFP 936.6800 IN. X0
 .000 .000 10.000 8.000 YMRP 1109.0000 IN. Y0
 .000 .000 10.000 8.000 ZMRP 375.0000 IN. Z0
 SCALE .0125

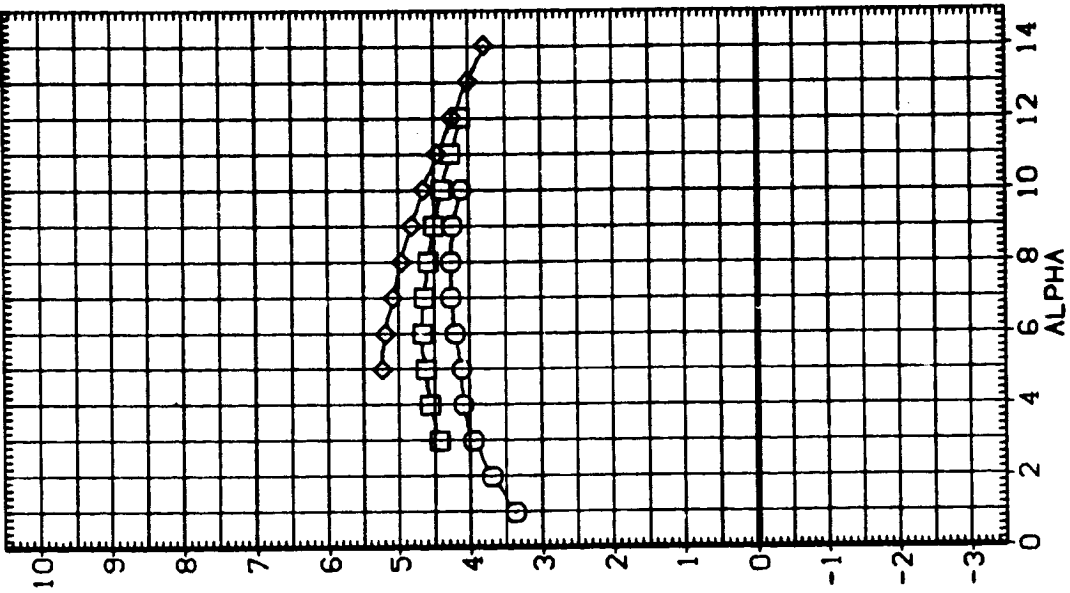
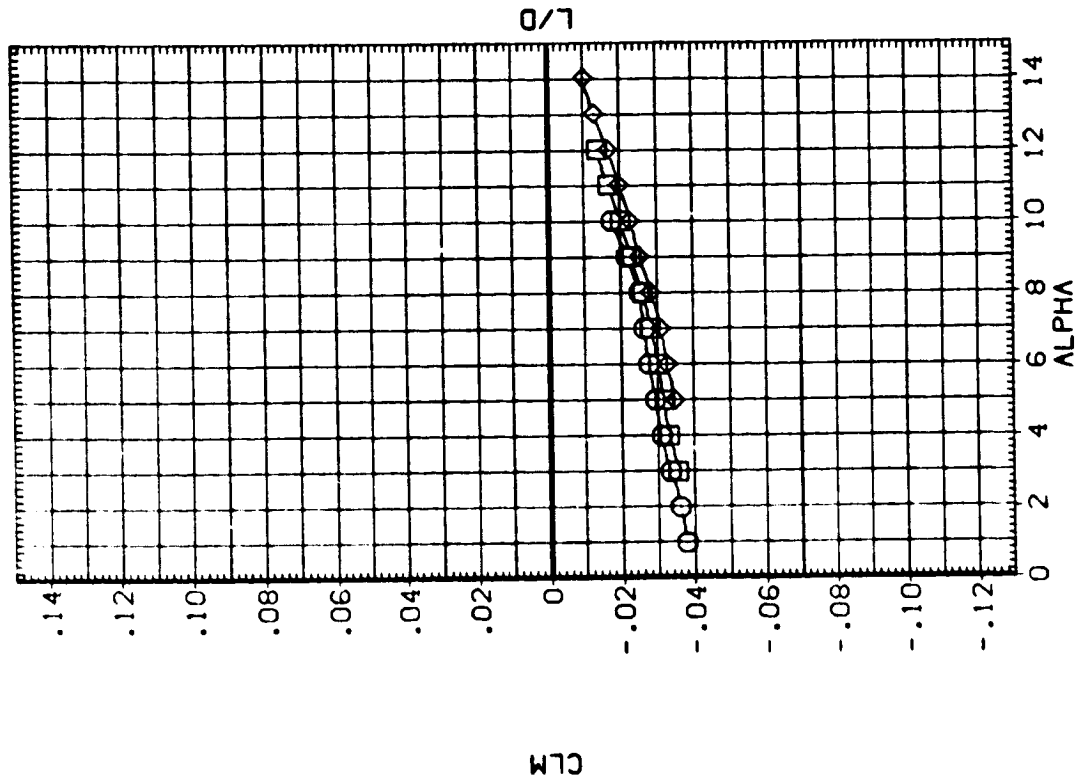


FIG.6 ORBITER MATED AERO CHARACTERISTICS (INTERPOLATED I-ORB)

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	STAB-C	RUD-C	ELV-0	I-ORB	REFERENCE INFORMATION
(DE 9C50)	ARC14-080-1 CA23 747/1 01 AT1 (ORB MATED)	-1.000	.000	10.000	4.000	SREF 2690.0000 SO.FT.
(DE 9C30)	ARC14-080-1 CA23 747/1 01 AT1 (ORB MATED)	-1.000	.000	10.000	6.000	LREF 474.8100 IN.
(DE 9C40)	ARC14-080-1 CA23 747/1 01 AT1 (ORB MATED)	-1.500	.000	10.000	8.000	BREF 936.6800 IN.
						XMRP 1109.0000 IN. X0
						YMRP .0000 IN. Y0
						ZMRP 375.0000 IN. Z0
						SCALE .0125

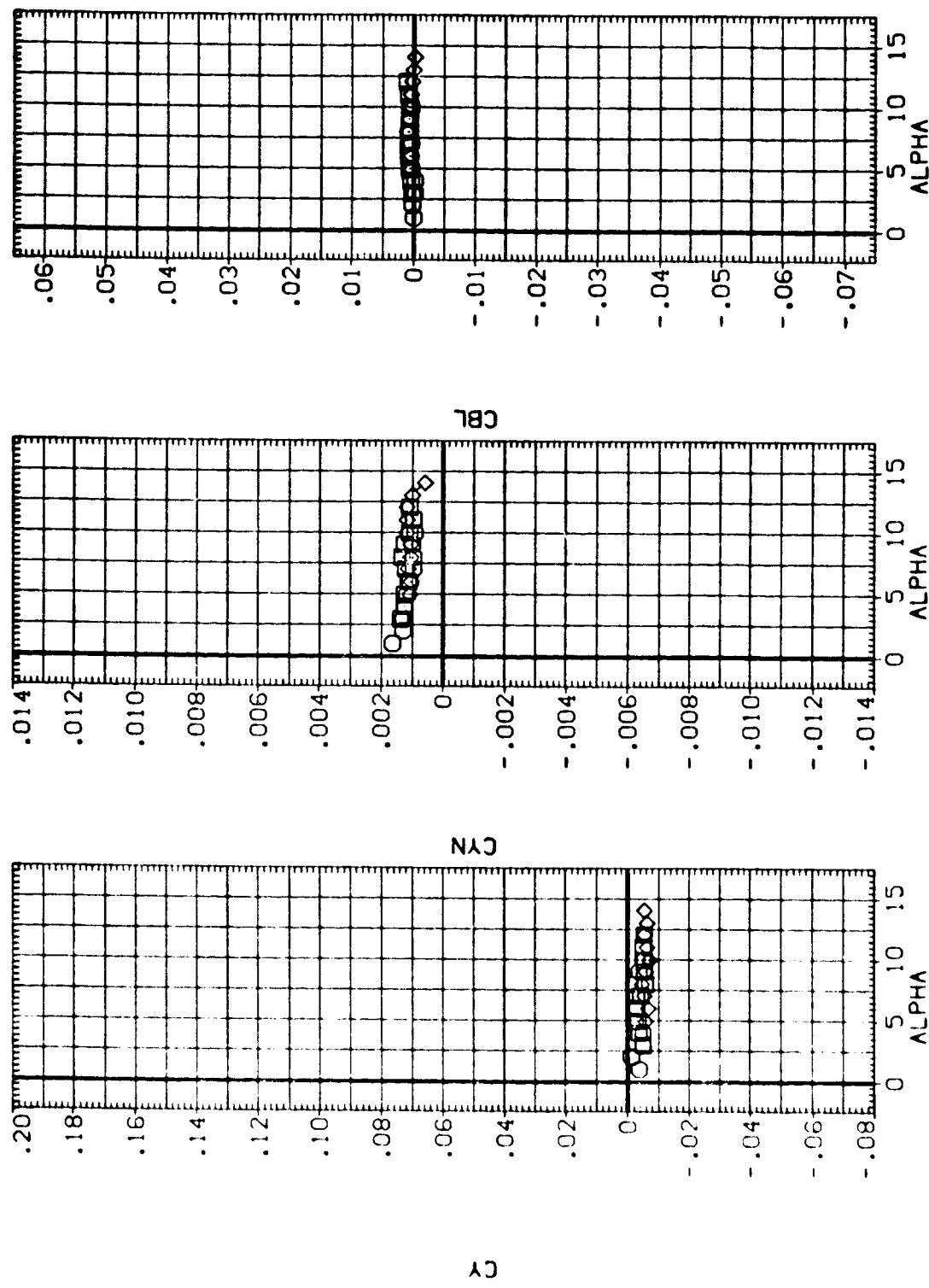


FIG.6 ORBITER MATED AERO CHARACTERISTICS (INTERPOLATED I-ORB)

MACH = .60

DATA SET SYMBOLS

ARC14-ORBITER CA23 747/1 01 AT1 (ORB MATED)
 ARC14-ORBITER CA23 747/1 01 AT1 (ORB MATED)
 ARC14-ORBITER CA23 747/1 01 AT1 (ORB MATED)

STAB-C RUO-C ELV-O IAOB8
 -1.000 .000 10.000 4.000
 -1.000 .000 10.000 6.000
 -1.000 .000 10.000 8.000

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 474.8100 IN.
 BREF 936.6800 IN.
 XMRP 1109.0000 IN.
 YMRP .0000 IN.
 ZMRP 375.0000 IN.
 SCALE .0125

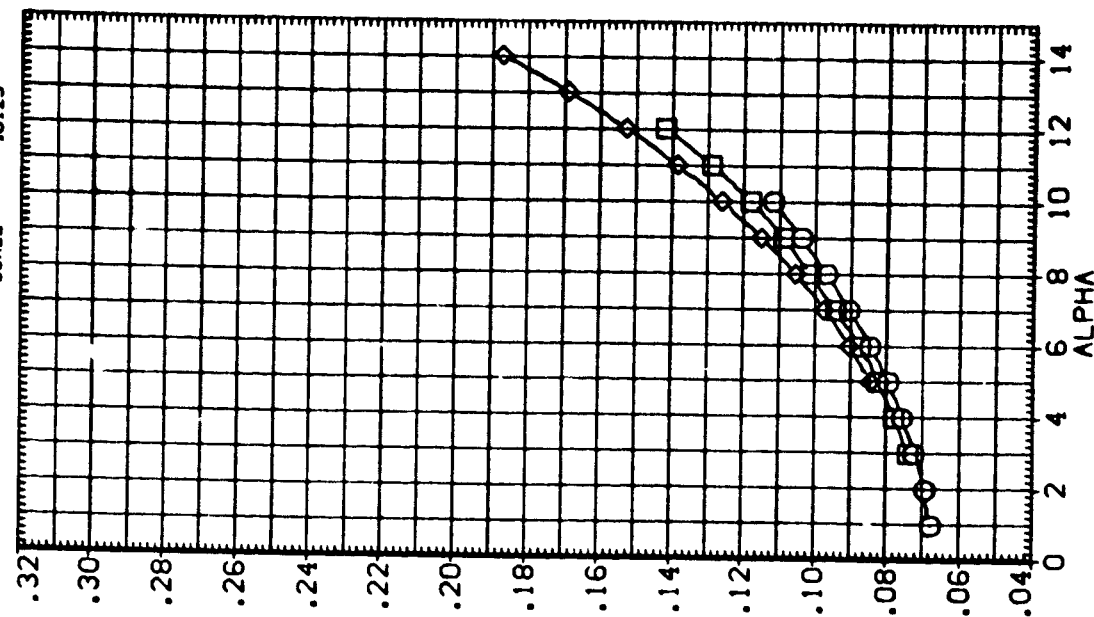
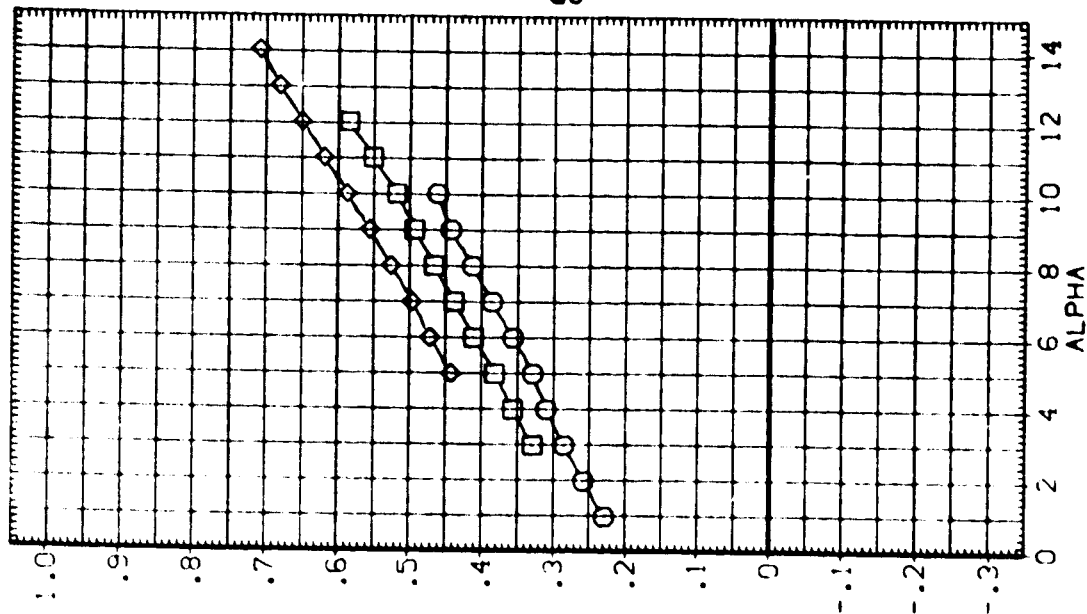


FIG.6 ORBITER MATED AERO CHARACTERISTICS (INTERPOLATED I-ORB)

(A)MACH = .60



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	STAB-C	RUD-C	ELV-0	IAOR8	REFERENCE INFORMATION
(DE9C51)	ARC14-080-1 CA23 747/1 01 AT1 (ORB MATED)	5.000	.000	10.000	4.000	SREF 2690.0000 SO.FT.
(DE9C31)	ARC14-080-1 CA23 747/1 01 AT1 (ORB MATED)	5.000	.000	10.000	6.000	LREF 474.8100 IN.
(DE9C41)	ARC14-080-1 CA23 747/1 01 AT1 (ORB MATED)	5.000	.000	10.000	8.000	BREF 936.6800 IN. X0
						YMRP 1109.0000 IN. Y0
						ZMRP 375.0000 IN. Z0
						SCALE .0125

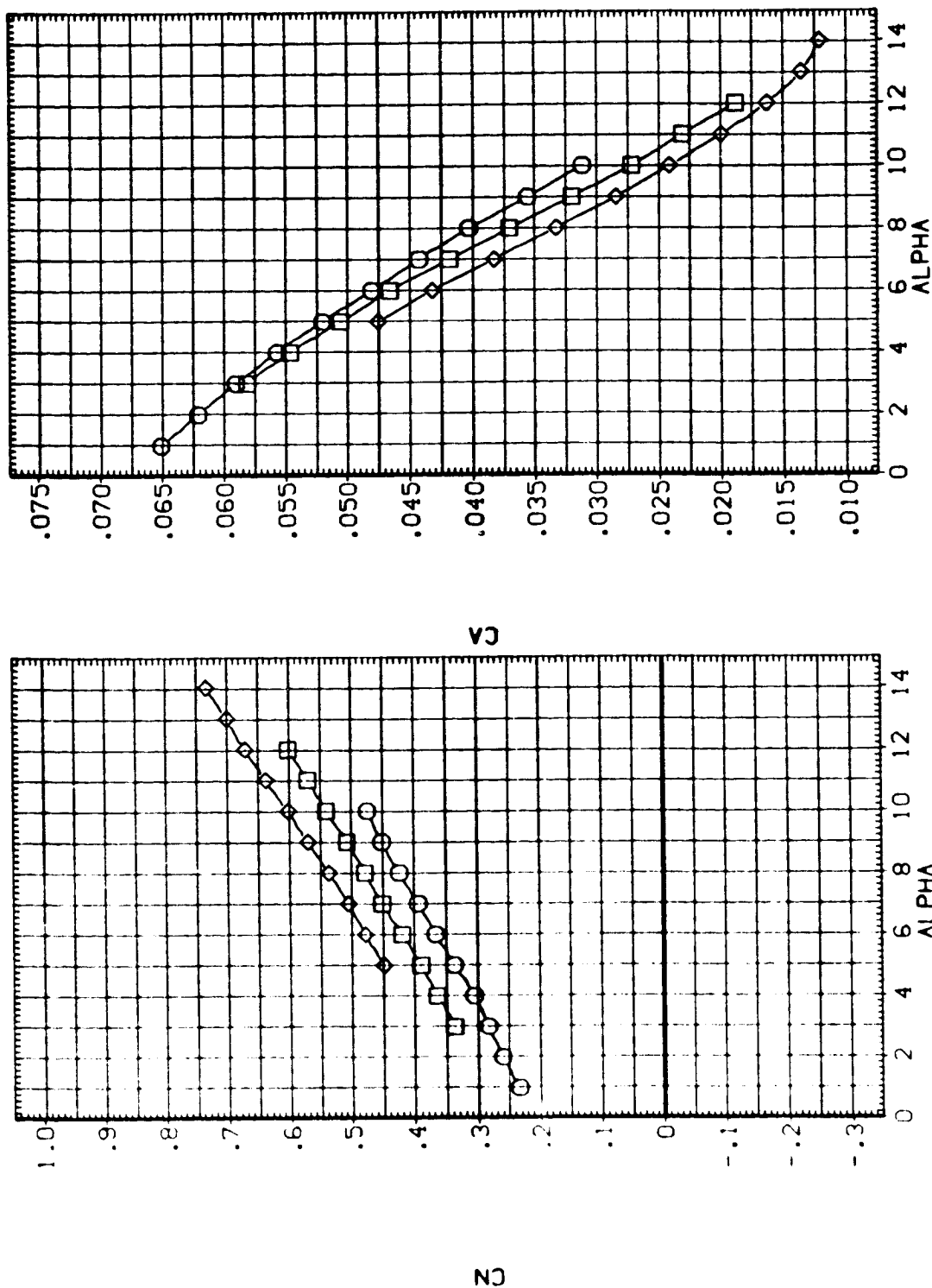


FIG.6 ORBITER MATED AERO CHARACTERISTICS (INTERPOLATED I-ORB)

(A)MACH = .60

STAB-C	RUD-C	ELV-B	IADRB	REFERENCE INFORMATION	
5.000	.000	10.000	4.000	SREF	2690.0000 SQ. FT.
5.000	.000	10.000	6.000	LREF	474.8100 IN.
5.000	.000	10.000	8.000	GRF	936.5800 IN.
				YMRP	1109.0000 IN.
				YMRP	.0000 IN.
				ZMRP	375.0000 IN.
				SCALE	.0125

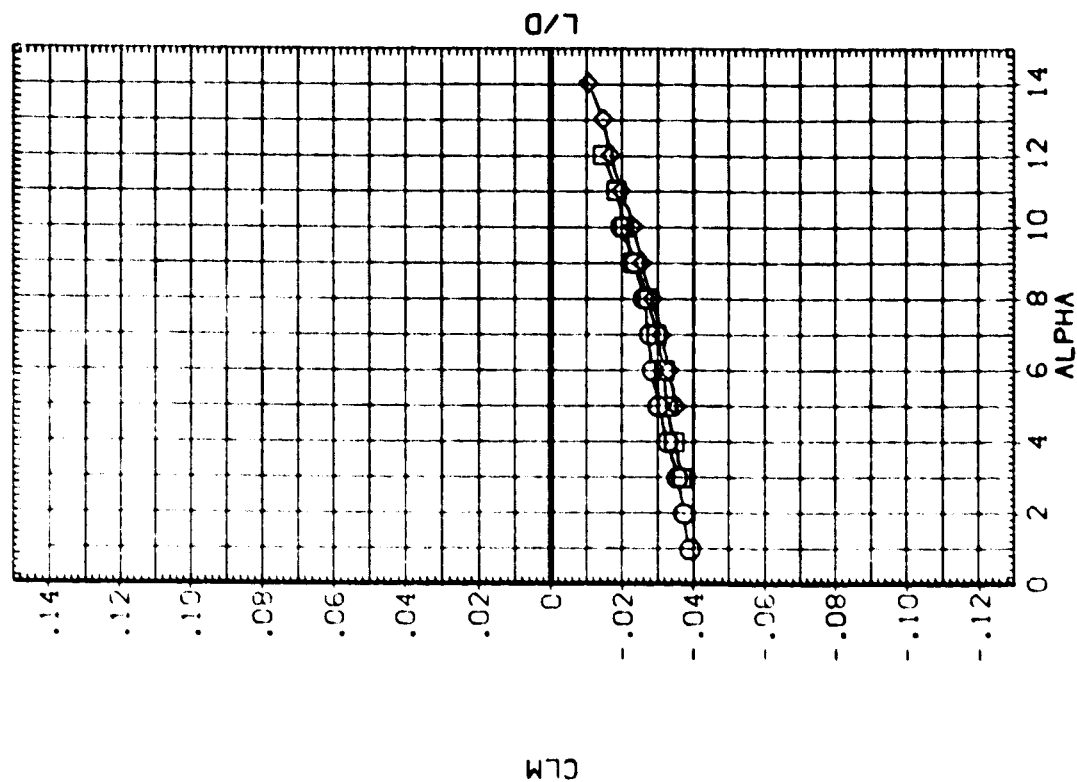


FIG. 6 ORBITER MATED AERO CHARACTERISTICS (INTERPOLATED 1-OR8)

$$C_9 = H_2V(C_9)$$

DATA SET SYMBOL: CONF: GURATION DESCRIPTION

ARC: 4-ORC-1	CA23	747/1	01	ATI	(ORB MATED)
ARC: 4-ORC-1	CA23	747/1	01	ATI	(ORB MATED)
ARC: 4-ORC-1	CA23	747/1	01	ATI	(ORB MATED)

REFERENCE INFORMATION

SREF	2690.0000	50.000	50.000
LREF	474.8100 <td>IN.</td> <td>IN.</td>	IN.	IN.
BREF	926.6800 <td>IN.</td> <td>IN.</td>	IN.	IN.
XMRP	1109.0000 <td>IN.</td> <td>IN.</td>	IN.	IN.
YMRP	.0000 <td>IN.</td> <td>IN.</td>	IN.	IN.
ZMRP	375.0000 <td>IN.</td> <td>IN.</td>	IN.	IN.
SCALE	.0125 <td></td> <td></td>		

STAB-C RUD-C ELV-B I-ORB

STAB-C	RUD-C	ELV-B	I-ORB
5.000	.000	10.000	4.000
5.000	.000	10.000	6.000
5.000	.000	10.000	8.000

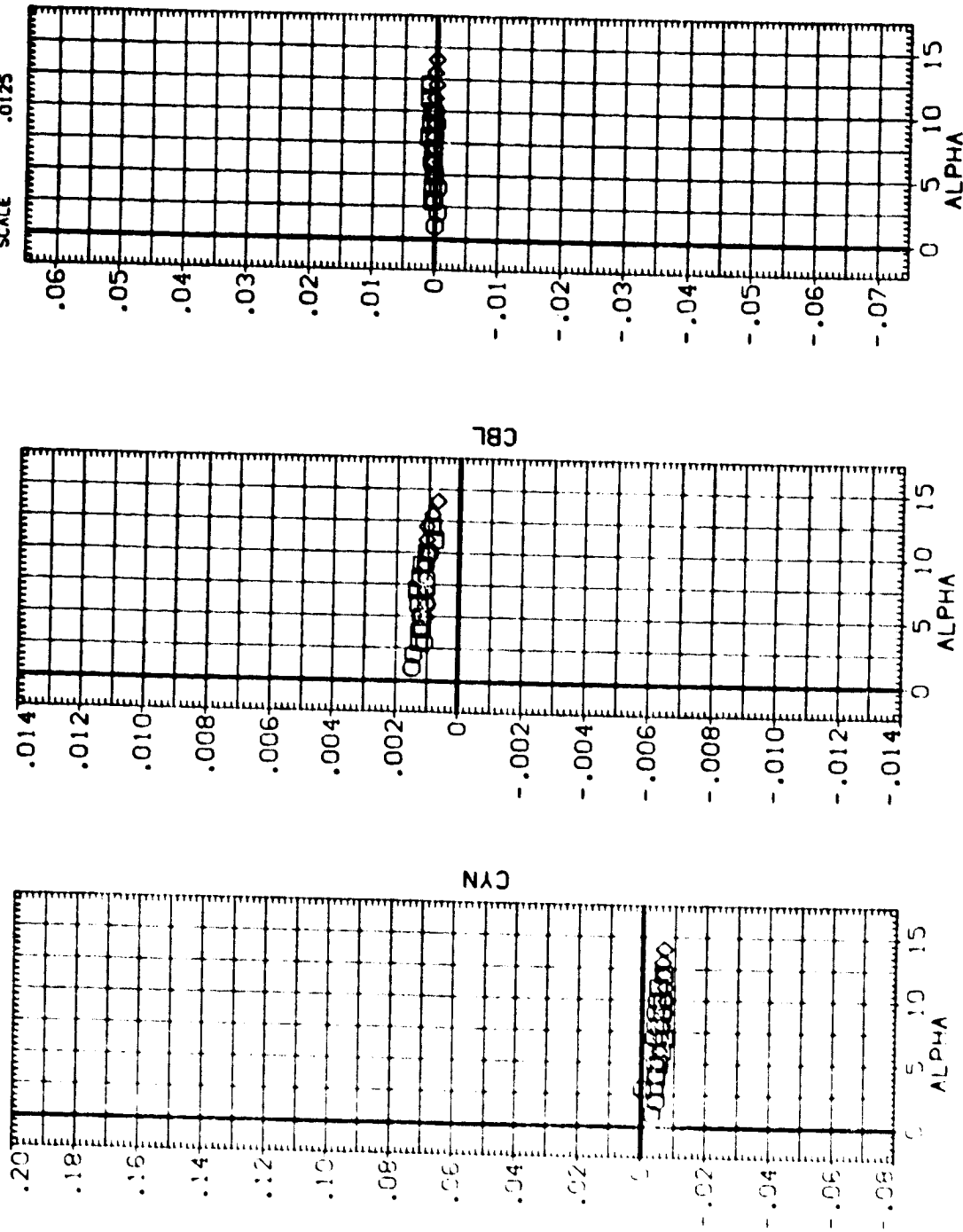


FIG.6 ORBITER MATED AERO CHARACTERISTICS (INTERPOLATED I-ORB)

CALMACH .60

DATA SET SYMBOL: CONFIGURATION DESCRIPTION
 2535117 2535117 2535117 2535117 2535117
 2535117 2535117 2535117 2535117 2535117
 2535117 2535117 2535117 2535117 2535117

AR 14-585-1 CA23 747-1 01 AT1 (ORB MATED)
 AR 14-585-1 CA23 747-1 01 AT1 (ORB MATED)
 AR 14-585-1 CA23 747-1 01 AT1 (ORB MATED)

STAB-C RUO-C ELV-B IAOB
 5.000 .000 10.000 4.000
 5.000 .000 10.000 6.000
 5.000 .000 10.000 8.000

REFERENCE INFORMATION SQ. FT.
 SREF 2650.0000 IN.
 LREF 474.8100 IN.
 BREF 936.5800 IN.
 XMRP 1109.0000 IN.
 YMRP 375.0000 IN.
 ZMRP 375.0000 IN.
 SCALE .0125

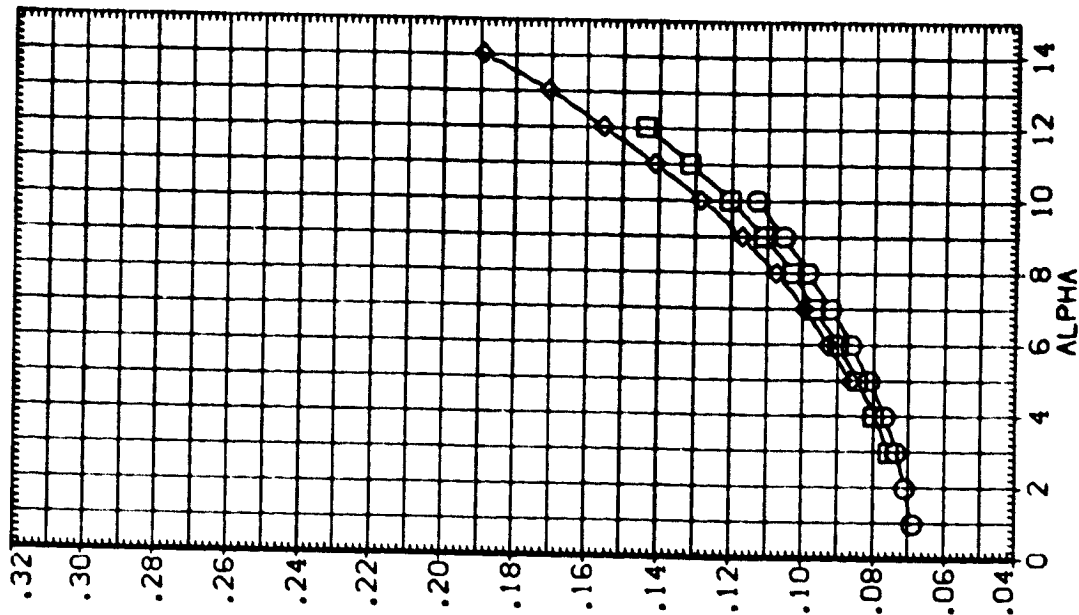
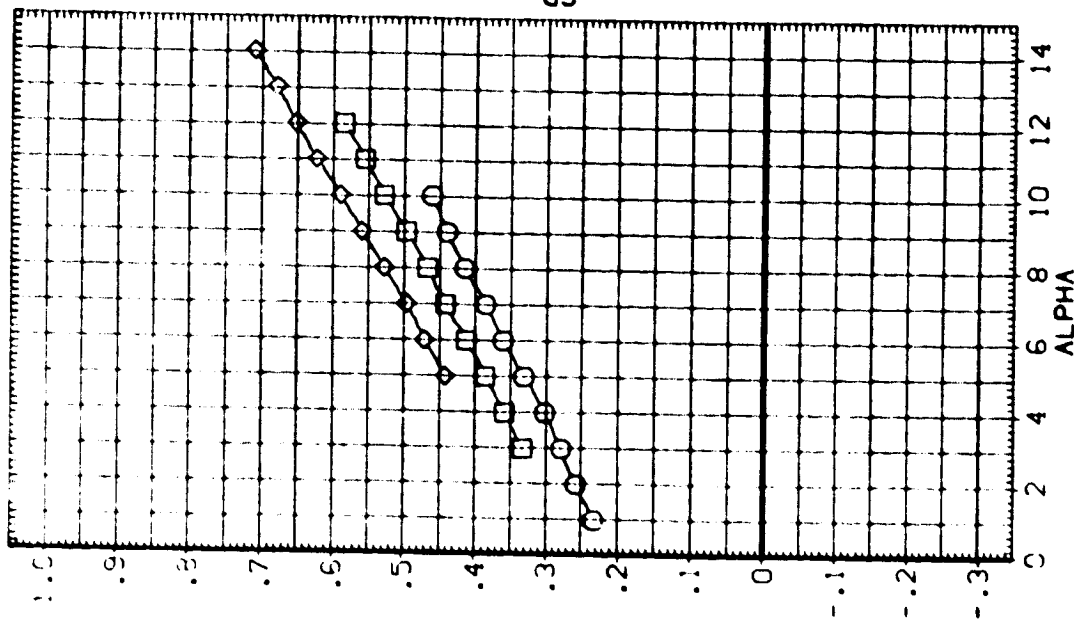


FIG.6 ORBITER MATED AERO CHARACTERISTICS (INTERPOLATED I-ORB)

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	STAB-C	RUD-C	ELV-0	IADRB	REFERENCE INFORMATION
(DE9C46)	ARC14-080-1 CA23 747/1 01 AT1 (DRB MATED)	5.000	.000	.000	4.000	SREF 2890.0000 SQ.FT.
(DE9C32)	ARC14-080-1 CA23 747/1 01 AT1 (DRB MATED)	5.000	.000	.000	6.000	LREF 474.8100 IN.
(DE9C43)	ARC14-080-1 CA23 747/1 01 AT1 (DRB MATED)	5.000	.000	.000	8.000	BREF 536.6800 IN.
						YMRP 1109.0000 IN. 30
						ZMRP .0000 IN. Y0
						SCALE 375.0000 IN. 20
						.0125

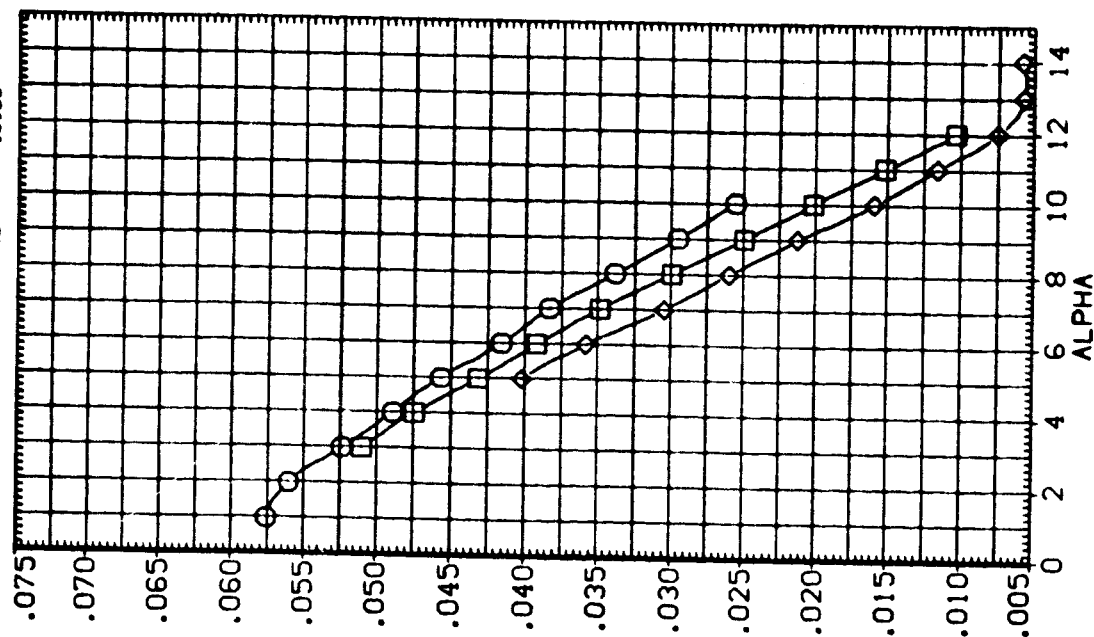
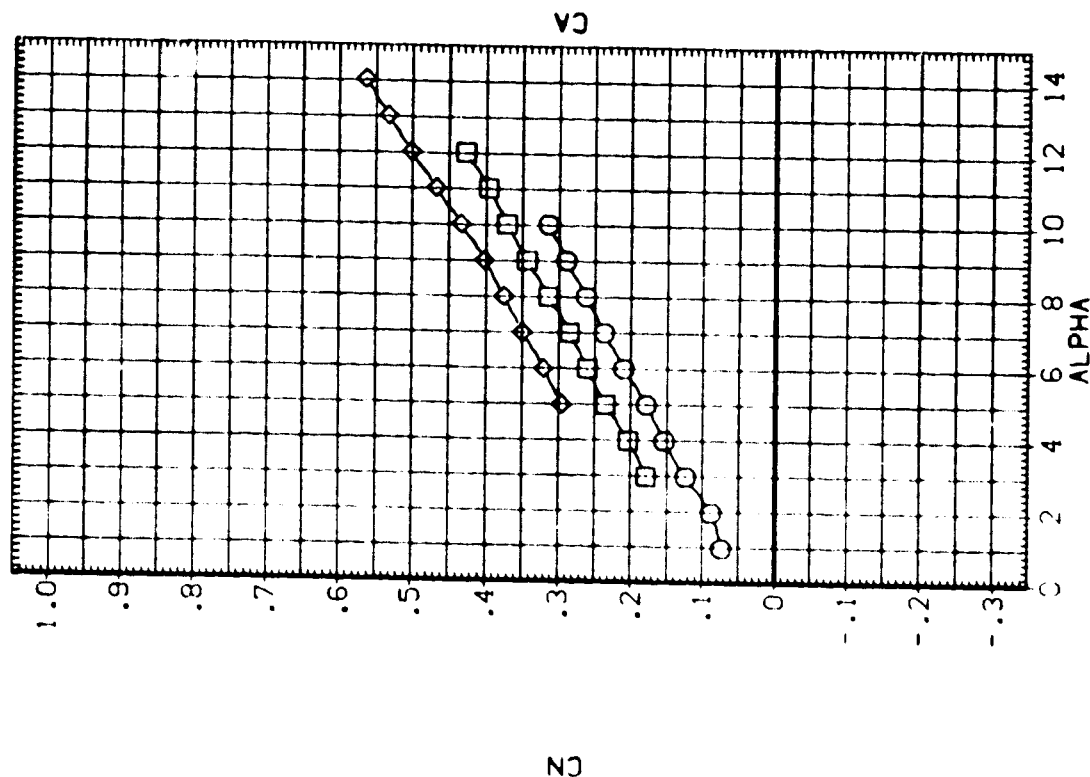


FIG. 6 ORBITER MATED AERO CHARACTERISTICS (INTERPOLATED [-ORB])

$$H(M(A)) = .60$$

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (OE9546) ARC14-080-1 CA23 747/1 01 AT1 (ORB MATED)
 (OE9547) ARC14-080-1 CA23 747/1 01 AT1 (ORB MATED)
 (OE9548) ARC14-080-1 CA23 747/1 01 AT1 (ORB MATED)

STAB-C RUD-C ELV-B IAOB
 5.000 .000 .000 4.000
 5.000 .000 .000 6.000
 5.000 .000 .000 8.000

REFERENCE INFORMATION
 SREF 2690.0000 50.FT.
 LREF 474.8100 IN.
 BREF 936.6800 IN.
 XMRP 1109.0000 IN. Y0
 YMRP .0000 IN. Y0
 ZMRP 375.0000 IN. Z0
 SCALE .0125

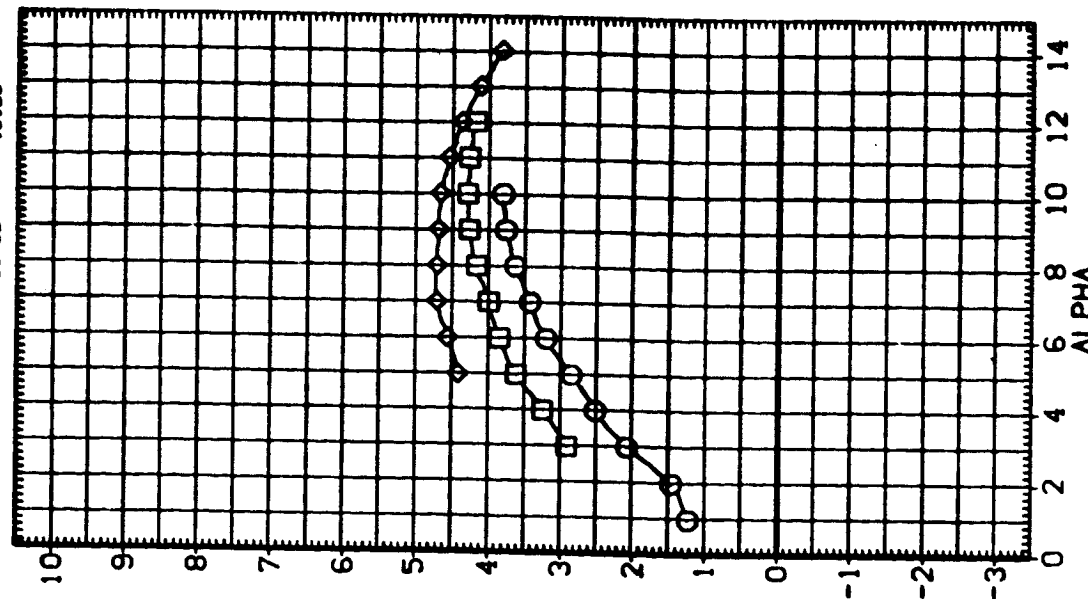
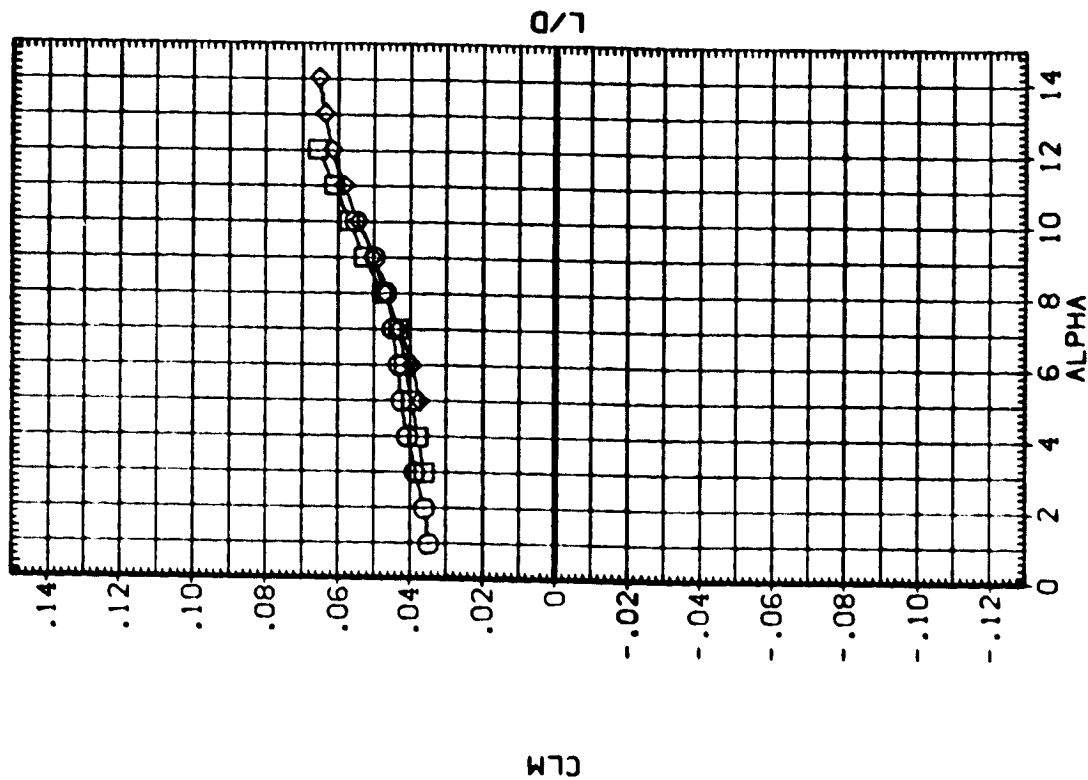


FIG.6 ORBITER MATED AERO CHARACTERISTICS (INTERPOLATED I-ORB)

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	STAB-C	RUD-C	ELV-0	IAOR8	REFERENCE INFORMATION
(DE9C46)	ARC14-080-1 CA23 747/1 01 AT1 (ORB MATED)	5.000	.000	.000	4.000	SREF 2690.0000 90.FT.
(DE9C32)	ARC14-080-1 CA23 747/1 01 AT1 (ORB MATED)	5.000	.000	.000	6.000	LREF 474.8100 IN.
(DE9C43)	ARC14-080-1 CA23 747/1 01 AT1 (ORB MATED)	5.000	.000	.000	8.000	SREF 936.6800 IN.
						XMRP 1109.0000 IN. 20
						YMRP 375.0000 IN. 20
						SCALE .0125

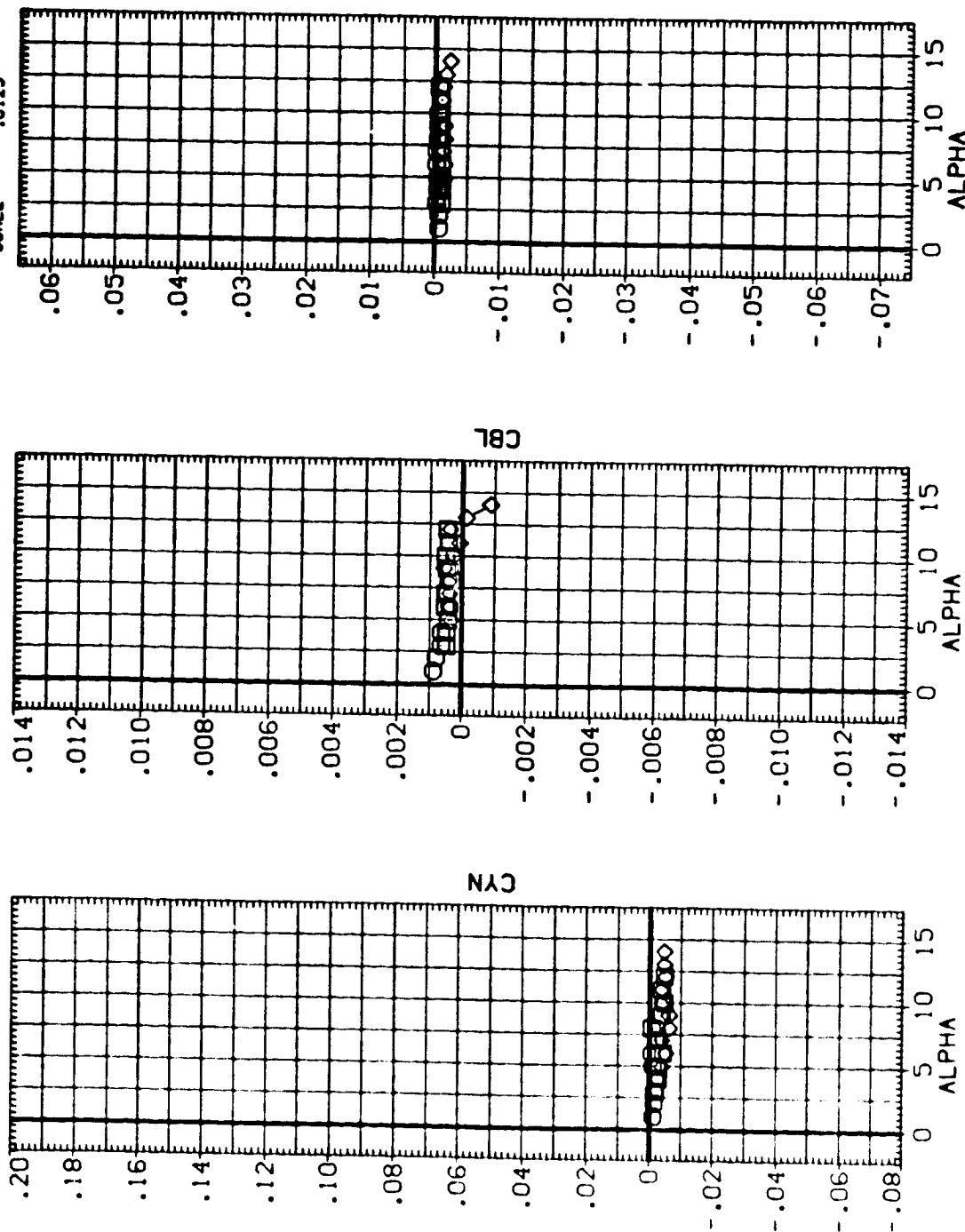


FIG.6 ORBITER MATED AERO CHARACTERISTICS (INTERPOLATED I-ORB)

(A)MACH = .60

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR

DATA SET SYMBOL
(OE9C46)
(OE9C42)
(OE9C43)

CONFIGURATION DESCRIPTION
ARC14-080-1 CA23 747/1 01 AT1 (ORB MATED)
ARC14-080-1 CA23 747/1 01 AT1 (ORB MATED)
ARC14-080-1 CA23 747/1 01 AT1 (ORB MATED)

STAB-C RUO-C ELV-0 IAOB8
5.000 .000 .000 4.000
5.000 .000 .000 5.000
5.000 .000 .000 6.000

REFERENCE INFORMATION
SREF 2690.0000 50.FT.
LREF 474.8100 IN.
BREF 936.6800 IN.
XMRP 1109.0000 IN. Y0
YMRP .0000 IN. Y0
ZMRP 375.0000 IN. Z0
SCALE .0125

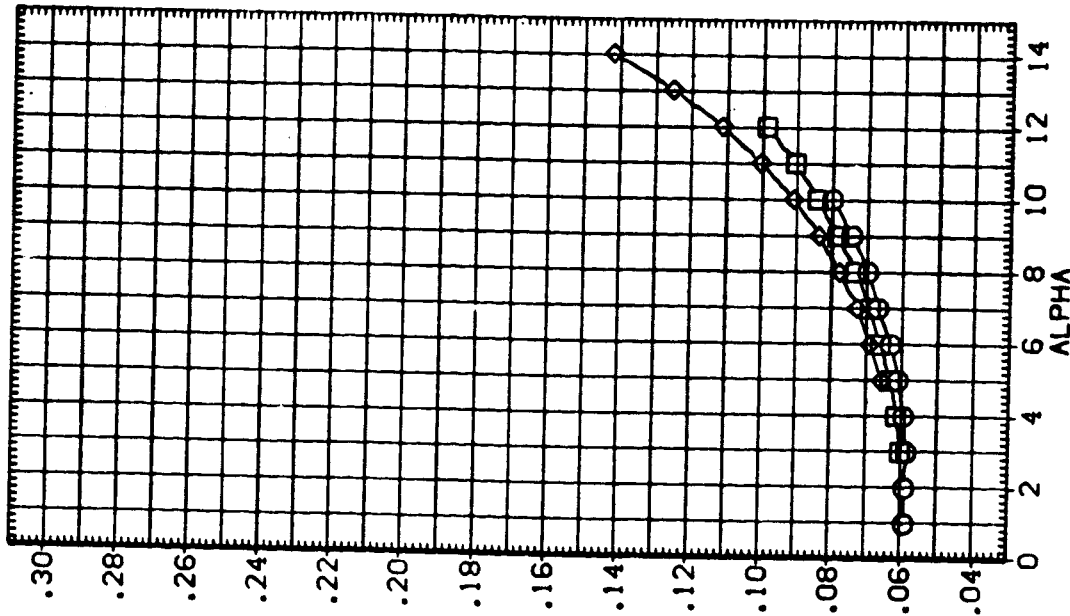
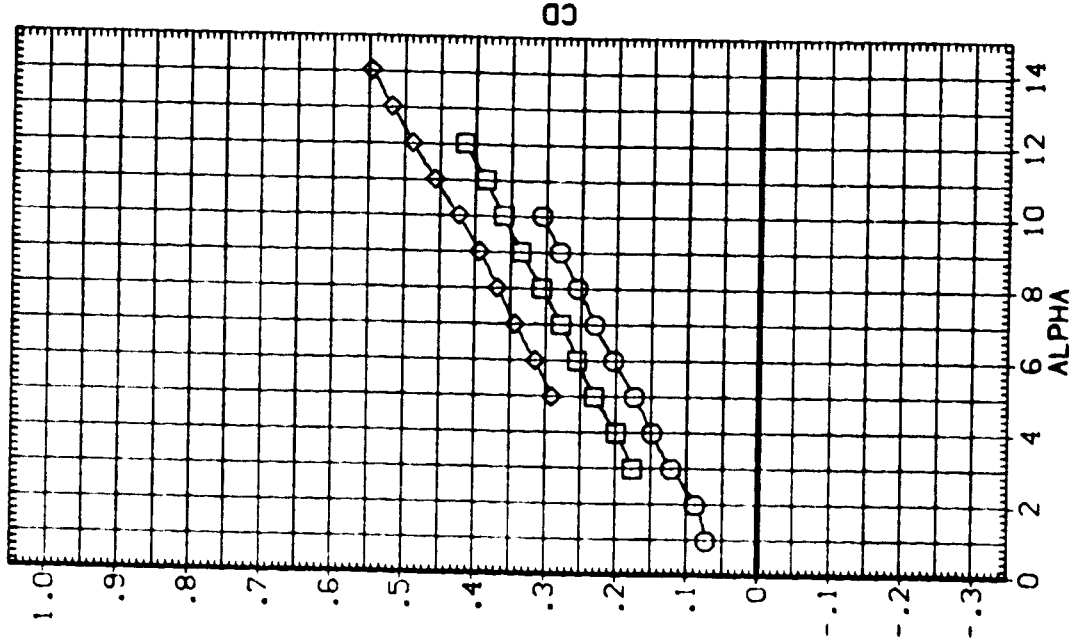


FIG.6 ORBITER MATED AERO CHARACTERISTICS (INTERPOLATED I-ORB)

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	STAB-C	RUD-C	ELV-O	I-ORB	REFERENCE INFORMATION
(DESC45)	ARC14-080-1 CA23 747/1 01 AT1 (ORB MATED)	-1.000	.000	.000	4.000	SREF 2690.0000 SO.FT.
(DESC34)	ARC14-080-1 CA23 747/1 01 AT1 (ORB MATED)	-1.000	.000	.000	6.000	LREF 474.8100 IN.
(DESC44)	ARC14-080-1 CA23 747/1 01 AT1 (ORB MATED)	-1.000	.000	.000	8.000	BREF 936.6800 IN.
						XMRP 1109.0000 IN. X0
						YMRP .0000 IN. Y0
						ZMRP 375.0000 IN. Z0
						SCALE .0125

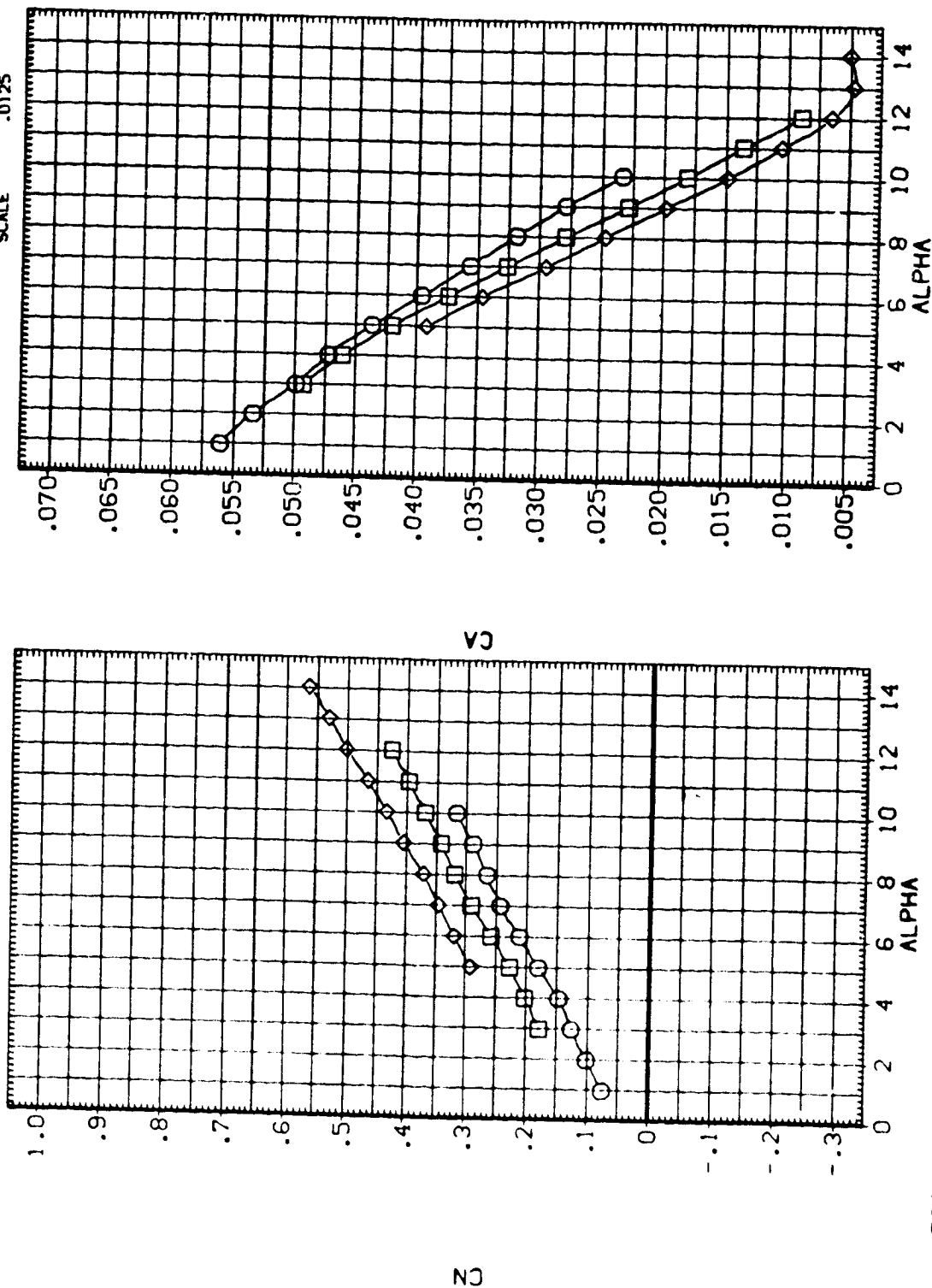


FIG.6 ORBITER MATED AERO CHARACTERISTICS (INTERPOLATED I-ORB)

(A)MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (DE9C45) ARC14-080-1 CA23 747/1 01 ATI (ORB MATED)
 (DE9C34) ARC14-080-1 CA23 747/1 01 ATI (ORB MATED)
 (DE9C44) ARC14-080-1 CA23 747/1 01 ATI (ORB MATED)

STAB-C RUO-C ELV-0 I-ORB
 -1.000 .000 .000 4.000
 -1.000 .000 .000 6.000
 -1.000 .000 .000 8.000

REFERENCE INFORMATION
 SREF 2690.0000 SO.FT.
 LREF 474.8100 IN.
 BREF 936.6800 IN.
 YHRP 1109.0000 IN. X0
 ZHRP .0000 IN. Y0
 ZHRP 375.0000 IN. Z0
 SCALE .0125

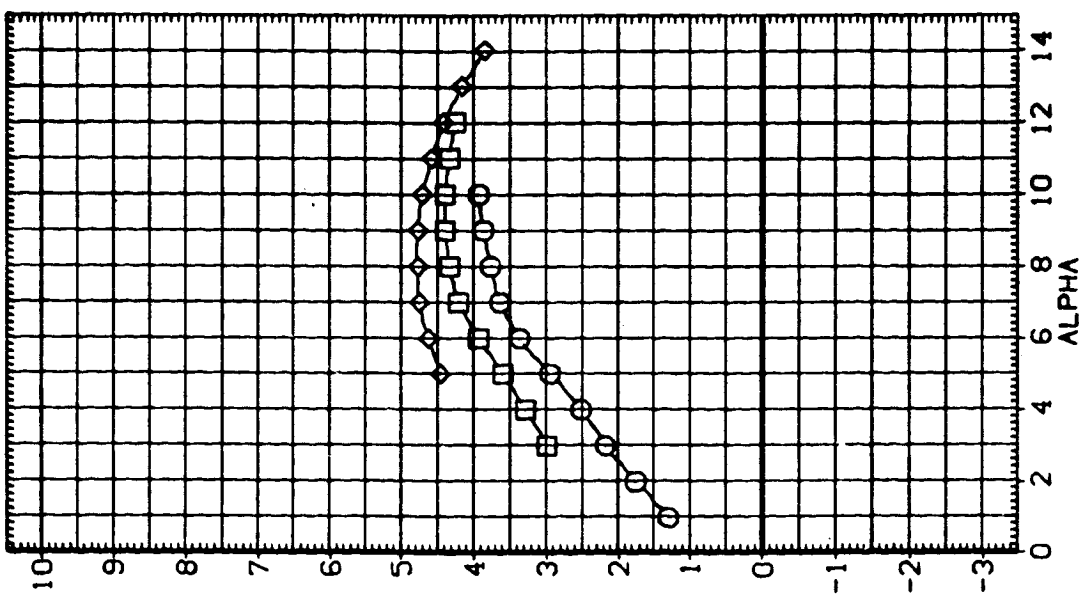
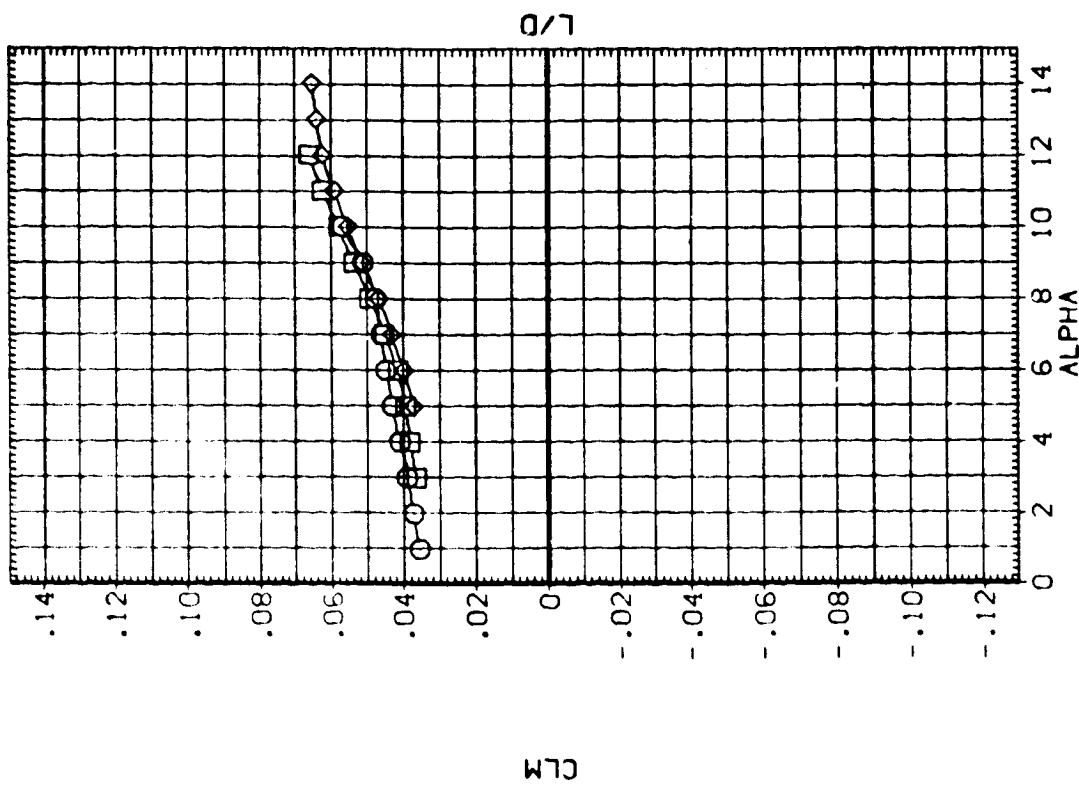


FIG.6 ORBITER MATED AERO CHARACTERISTICS (INTERPOLATED I-ORB)

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	STAB-C	RUD-C	ELV-0	I-ORB	REFERENCE INFORMATION
(0E9C45)	ARC:4-080-1 CA23 747/1 01 AT1 (ORB MATED)	-1.000	.000	.000	4.000	SREF 2690.0000 SO.FT.
(0E9C34)	ARC:4-080-1 CA23 747/1 01 AT1 (ORB MATED)	-1.000	.000	.000	6.000	LREF 474.8100 IN.
(0E9C44)	ARC:4-080-1 CA23 747/1 01 AT1 (ORB MATED)	-1.000	.000	.000	8.000	BREF 936.6800 IN.
						XMRP 1109.0000 IN. X0
						YMRP .0000 IN. Y0
						ZMRP 375.0000 IN. Z0
						SCALE .0125

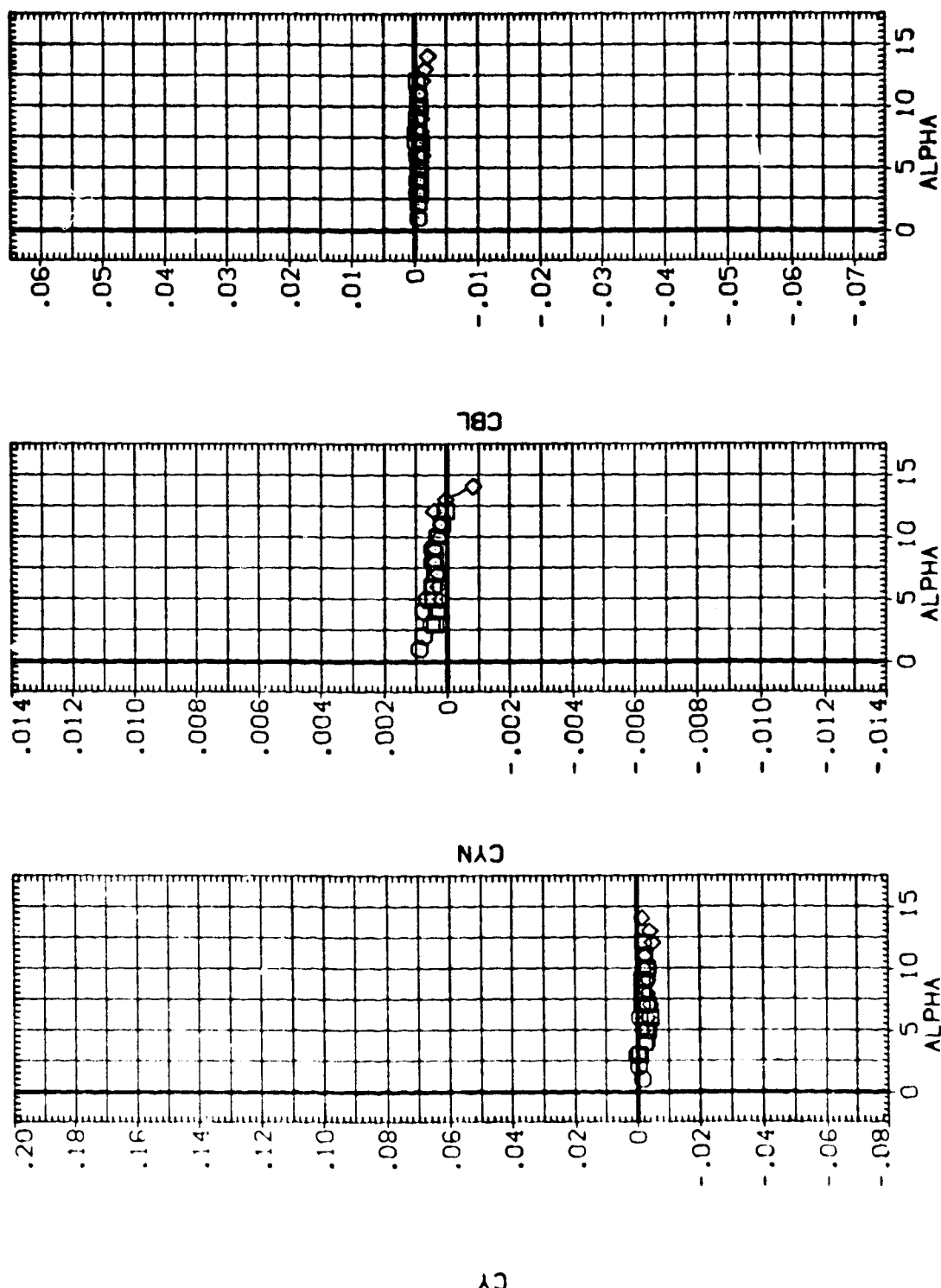


FIG.6 ORBITER MATED AERO CHARACTERISTICS (INTERPOLATED I-ORB)

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION	DESCRIPTION	
(2, 9C45)		APR 14-080-1	CA23 747/1	01 AT1 (ORB MATED)
(2, 33 34)		APR 14-080-1	CA23 747/1	01 AT1 (ORB MATED)
(2, 33 44)		APR 14-080-1	CA23 747/1	01 AT1 (ORB MATED)

STAB-C	RUD-C	ELV-0	IAOR8
-1.000	.000	.000	4.000
-1.000	.000	.000	6.000
-1.000	.000	.000	8.000

REFERENCE INFORMATION	
SREF	2690.0000 SO.FT.
LREF	474.8100 IN.
BREF	936.6800 IN.
XHRP	1109.0000 IN. X0
YHRP	.0000 IN. Y0
ZHRP	375.0000 IN. Z0
SCALE	.0125

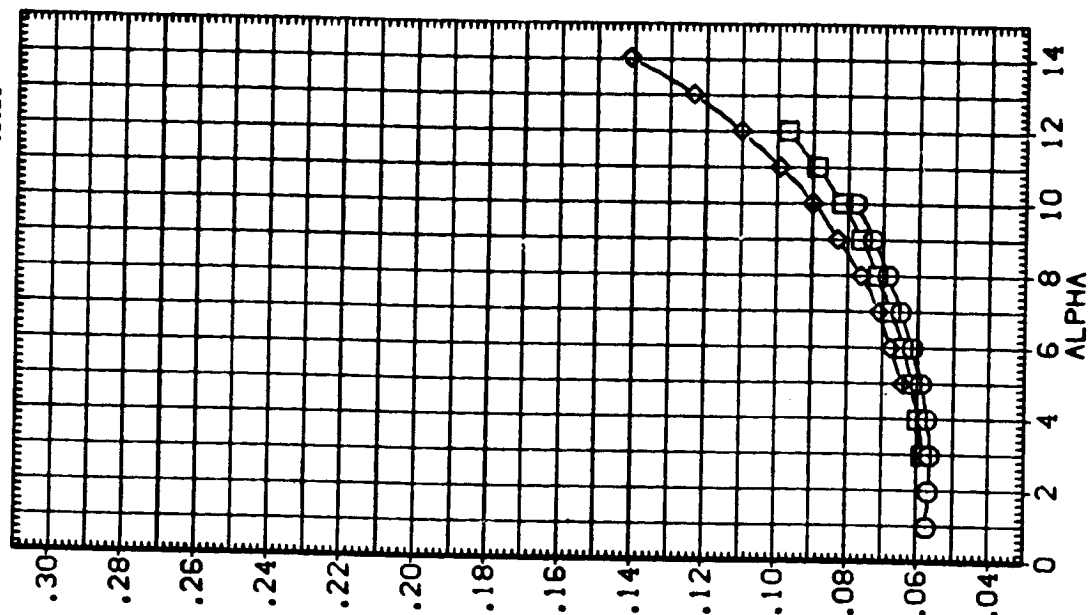
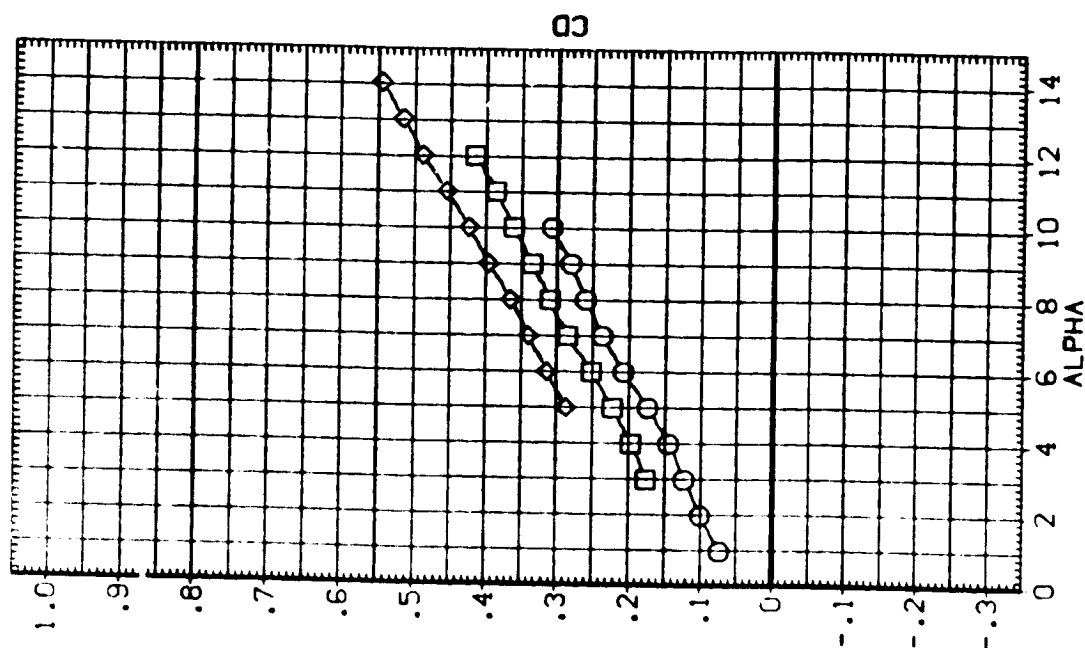


FIG. 6 ORBITER MATED AERO CHARACTERISTICS (INTERPOLATED 1-ORB)

$$(\Delta)MACH = .60$$

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	STAB-C	E.V.-0	AIL-0	IAOR8	REFERENCE INFORMATION
(SE9C32)	ARC14-080-1 CA23 747/1 01 AT1 (ORB MATED)	5.000	5.000	-10.000	4.000	SREF 2650.0000 SQ.FT.
(SE9C35)	ARC14-080-1 CA23 747/1 01 AT1 (ORB MATED)	5.000	5.000	-10.000	6.000	LREF 474.8100 IN.
(SE9C42)	ARC14-080-1 CA23 747/1 01 AT1 (ORB MATED)	5.000	5.000	-10.000	8.000	BREF 938.6600 IN.
						YMRP 1109.0000 IN. KG
						ZMRP 375.0000 IN. ZG
						SCALE .0125

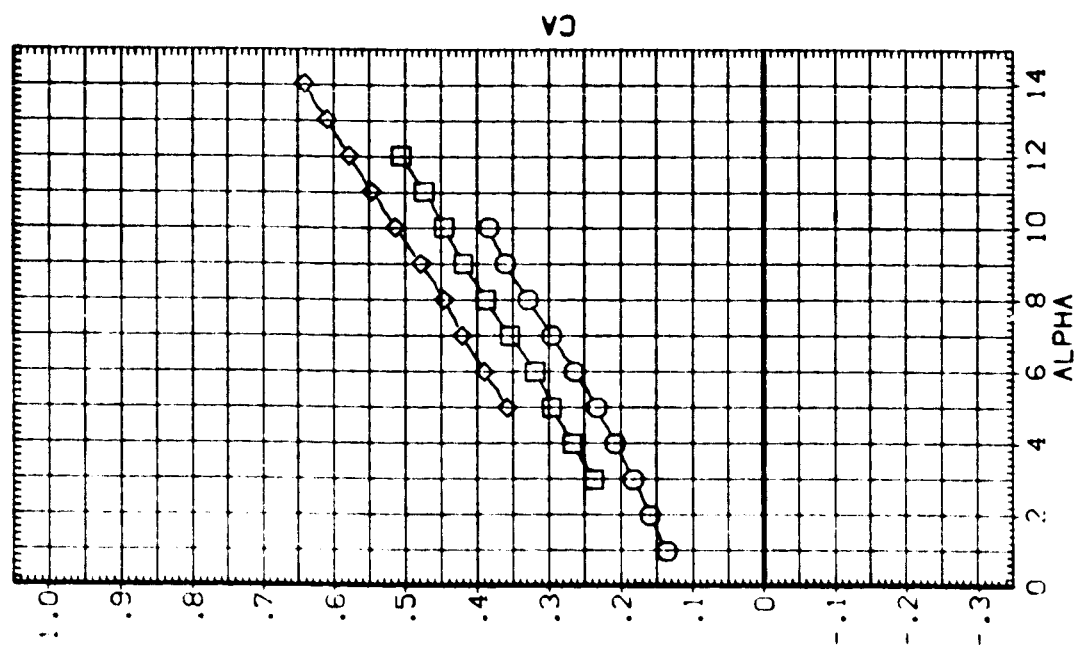
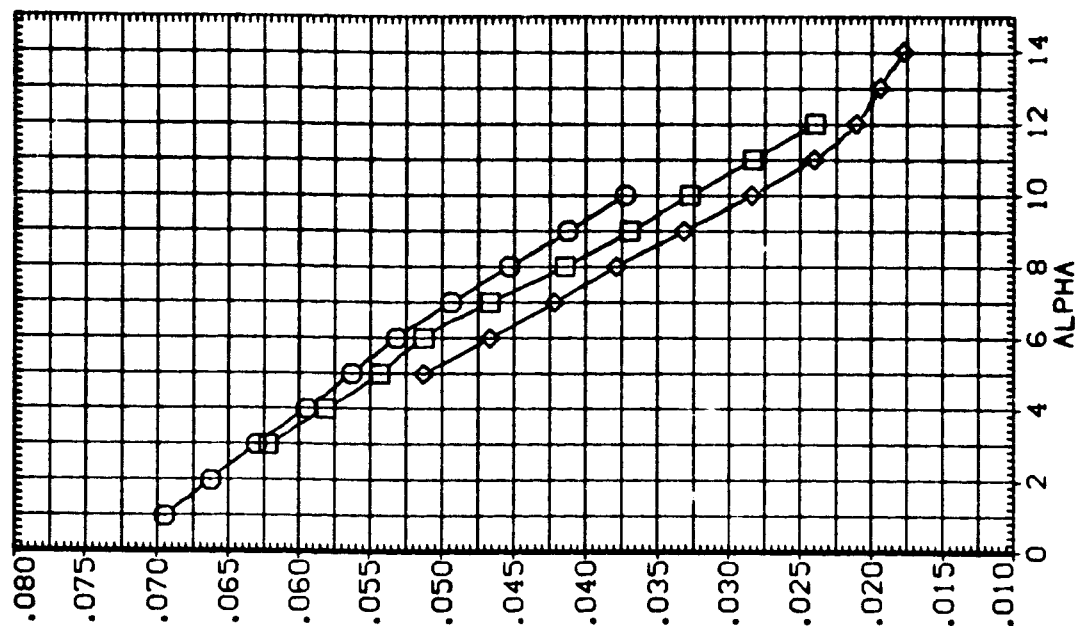


FIG.6 ORBITER MATED AERO CHARACTERISTICS (INTERPOLATED I-ORB)

(A)MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(DE9C32) ARC14-080-1 CA23 747/1 01 AT1 (ORB MATED)
 (DE9C35) ARC14-080-1 CA23 747/1 01 AT1 (ORB MATED)
 (DE9C42) ARC14-080-1 CA23 747/1 01 AT1 (ORB MATED)

STAB-C ELV-0 AIL-0 IAOB8
 5.000 5.000 -10.000 4.000
 5.000 5.000 -10.000 6.000
 5.000 5.000 -10.000 8.000

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 474.8100 IN.
 BREF 936.6000 IN.
 XMRP 1109.0000 IN. X0
 YMRP .0000 IN. Y0
 ZMRP 375.0000 IN. Z0
 SCALE .0125

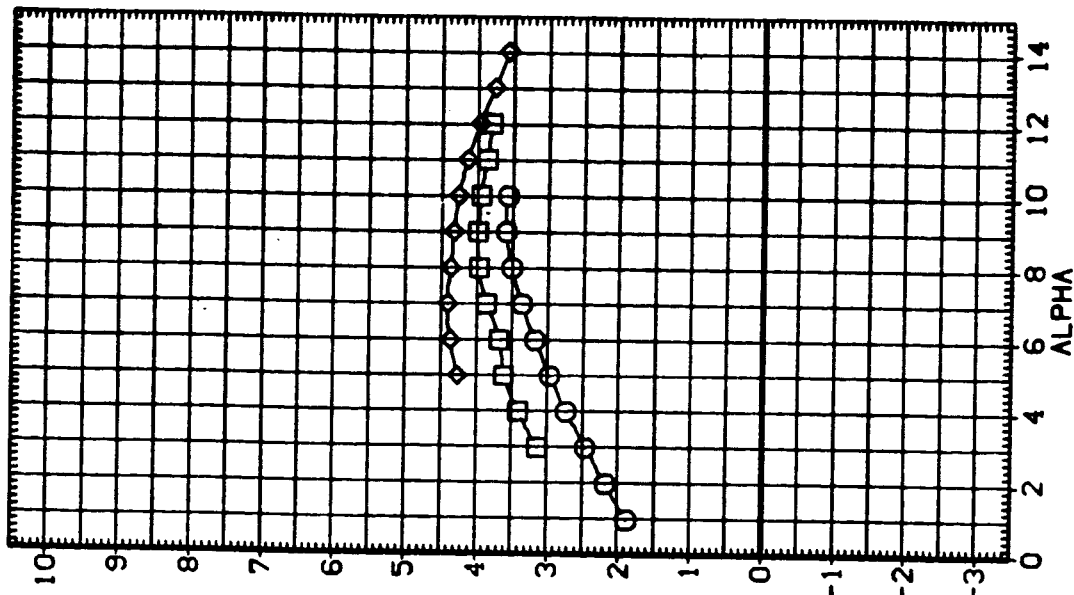
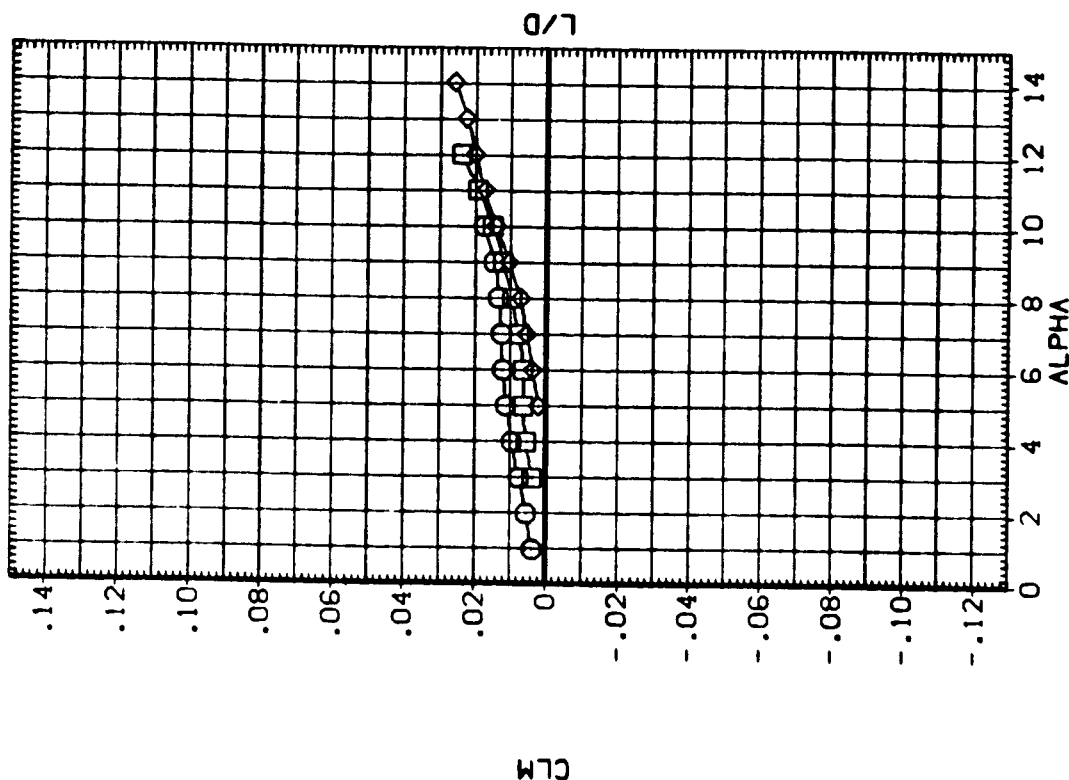


FIG.6 ORBITER MATED AERO CHARACTERISTICS (INTERPOLATED I-ORB)

(A)MACH = .60

DATA SET 510000 CONFIGURATION DESCRIPTION

ARC 14-080-1	CA23 747/1	01 AT1	(ORB MATED)	STAB-C	ELV-0	AIL-0	I-ORB	REFERENCE INFORMATION
ARC 14-080-1	CA23 747/1	01 AT1	(ORB MATED)	5.000	5.000	-10.000	4.000	SREF 2690.0000 SQ.FT.
ARC 14-080-1	CA23 747/1	01 AT1	(ORB MATED)	5.000	5.000	-10.000	6.000	LREF 474.8100 IN.
ARC 14-080-1	CA23 747/1	01 AT1	(ORB MATED)	5.000	5.000	-10.000	8.000	BREF 936.6800 IN.
								XMRP 1109.0000 IN. X0
								YMRP .0000 IN. Y0
								ZMRP 375.0000 IN. Z0
								SCALE .0125

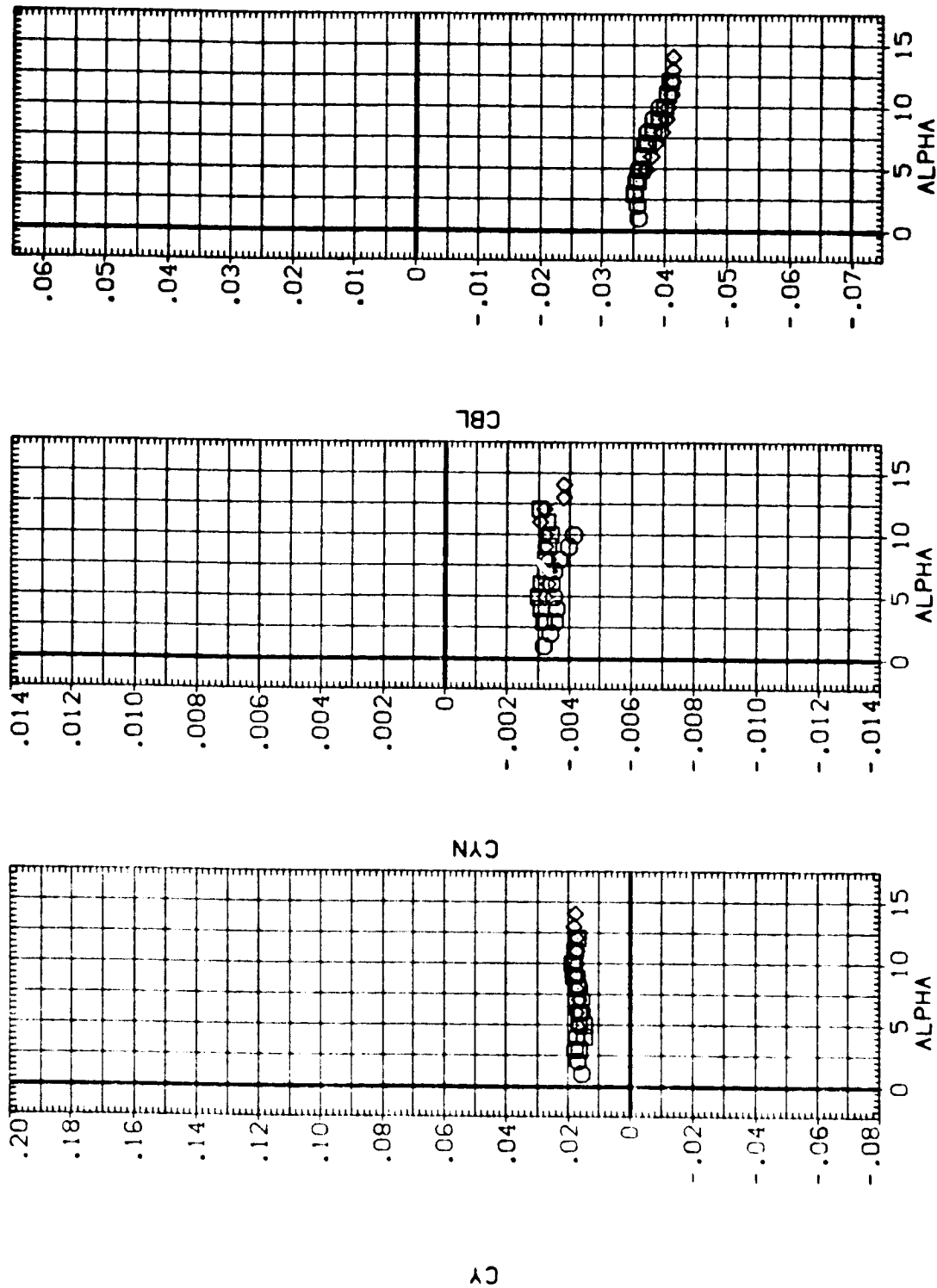


FIG.6 ORBITER MATED AERO CHARACTERISTICS (INTERPOLATED I-ORB)

(A)MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (09C52) ARC14-080-1 CA23 747/1 01 AT1 (ORB MATED)
 (09C35) ARC14-080-1 CA23 747/1 01 AT1 (ORB MATED)
 (09C42) ARC14-080-1 CA23 747/1 01 AT1 (ORB MATED)

STAB-C ELV-0 AIL-0 IARRB
 5.000 5.000 -10.000 4.000
 5.000 5.000 -10.000 6.000
 5.000 5.000 -10.000 8.000

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 474.8100 IN.
 BREF 936.6800 IN.
 XMRP 1109.0000 IN. X0
 YMRP .0000 IN. Y0
 ZMRP 375.0000 IN. Z0
 SCALE .0125

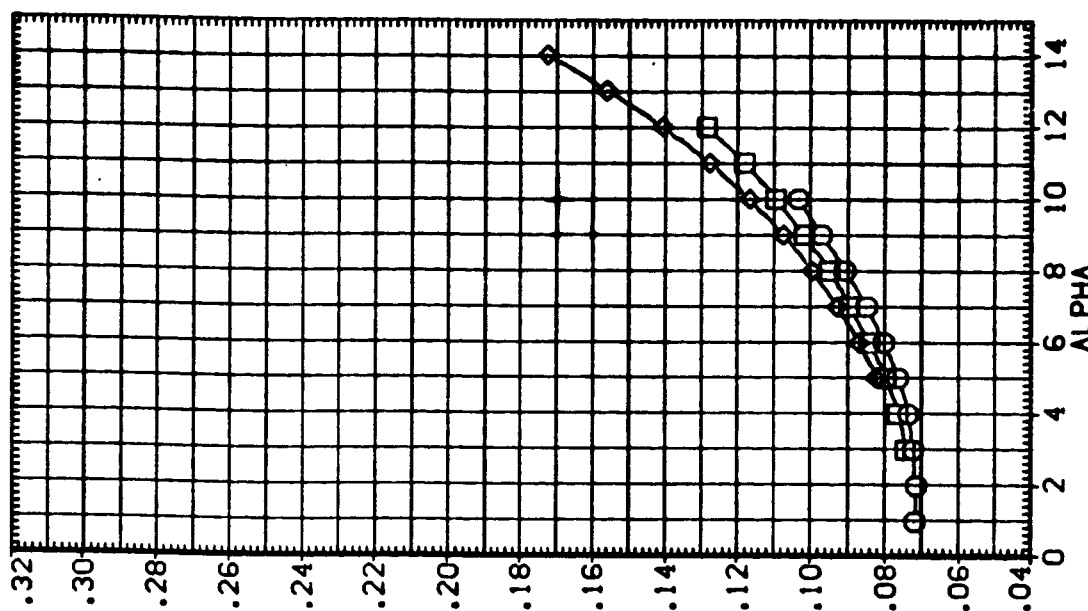
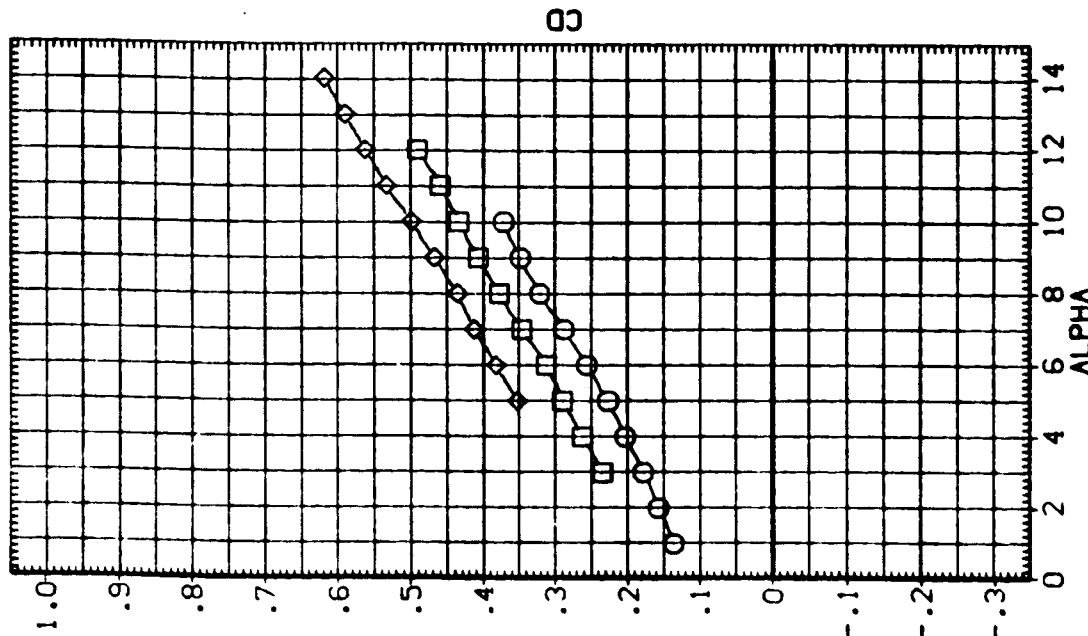


FIG.6 ORBITER MATED AERO CHARACTERISTICS (INTERPOLATED I-ORB)

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	STAB-C	RUD-C	ELV-0	1A088	REFERENCE INFORMATION
(069C53)	ARC14-080-1 CA23 747/1(-SI-S12701 AT1(088 MATED)	5.000	.030	5.000	6.000	SREF 2050.0000 SQ.FT.
(069C54)	ARC14-080-1 CA23 747/1(-SI-S12701 AT1(088 MATED)	5.000	.000	5.000	8.000	LREF 474.8100 IN.
						BREF 936.6800 IN.
						XMRP 1109.0000 IN. V0
						YMRP .0000 IN. V0
						ZMRP 375.0000 IN. V0
						SCALE .0125

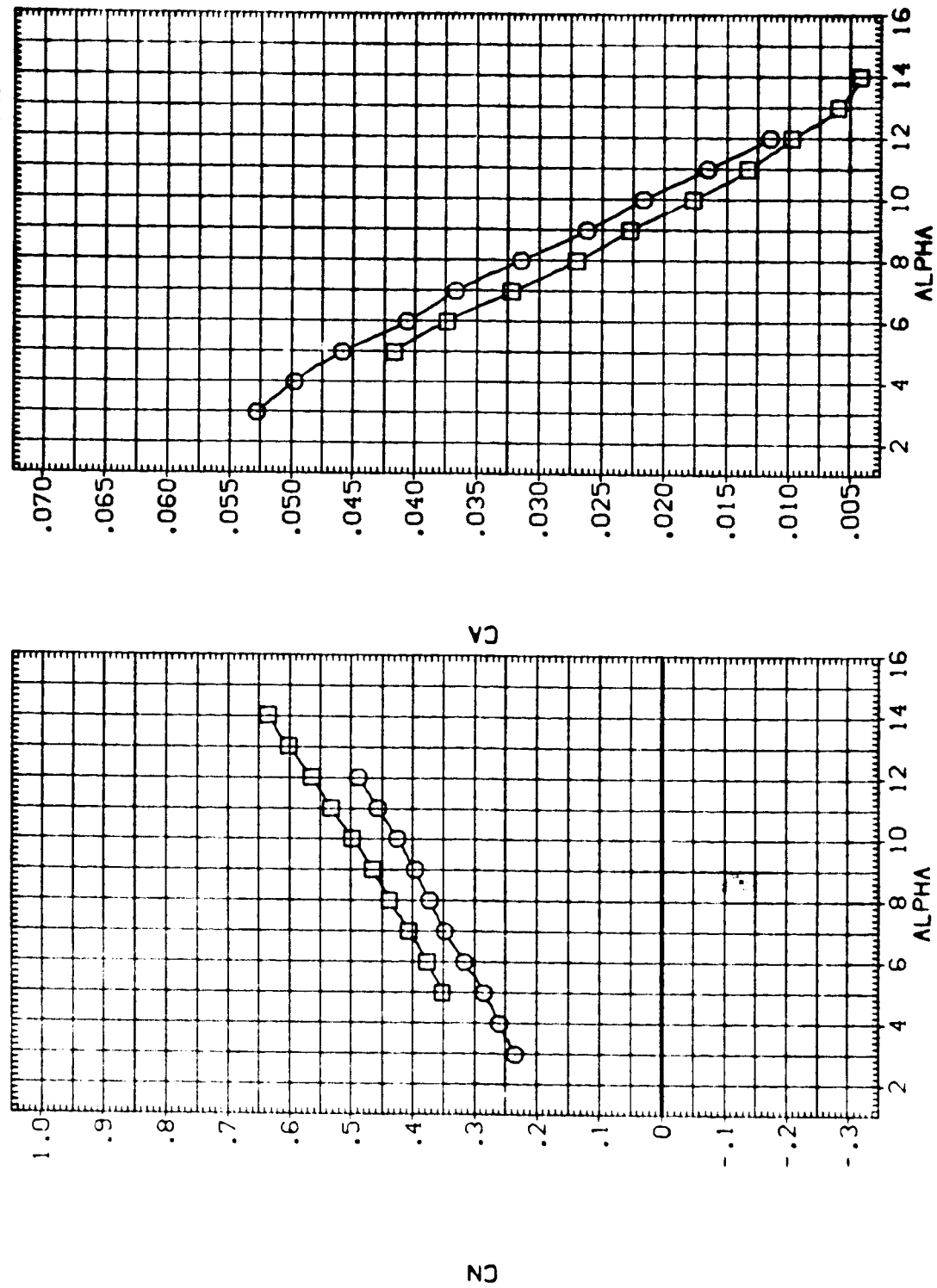


FIG.6 ORBITER MATED AERO CHARACTERISTICS (INTERPOLATED I-088)

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(CE9C53)	ARC14-060-1 CA23 747/1(-SI-S
(CE9C54)	ARC14-060-1 CA23 747/1(-SI-S



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	STAB-C	RUD-C	ELV-B	IAORB	REFERENCE INFORMATION
(969C53)	ARC:14-080-1 CA23 747/1(-SI-S12101 AT1(OR8 MATED)	5.000	.000	5.000	6.000	SREF 2690.0000 50.FT.
(969C54)	ARC:14-080-1 CA23 747/1(-SI-S12101 AT1(OR8 MATED)	5.000	.000	5.000	8.000	LREF 474.8100 IN.
						BREF 936.6800 IN.
						YMRP 1109.0000 IN. 10
						ZMRP 375.0000 IN. 20
						SCALE .0125

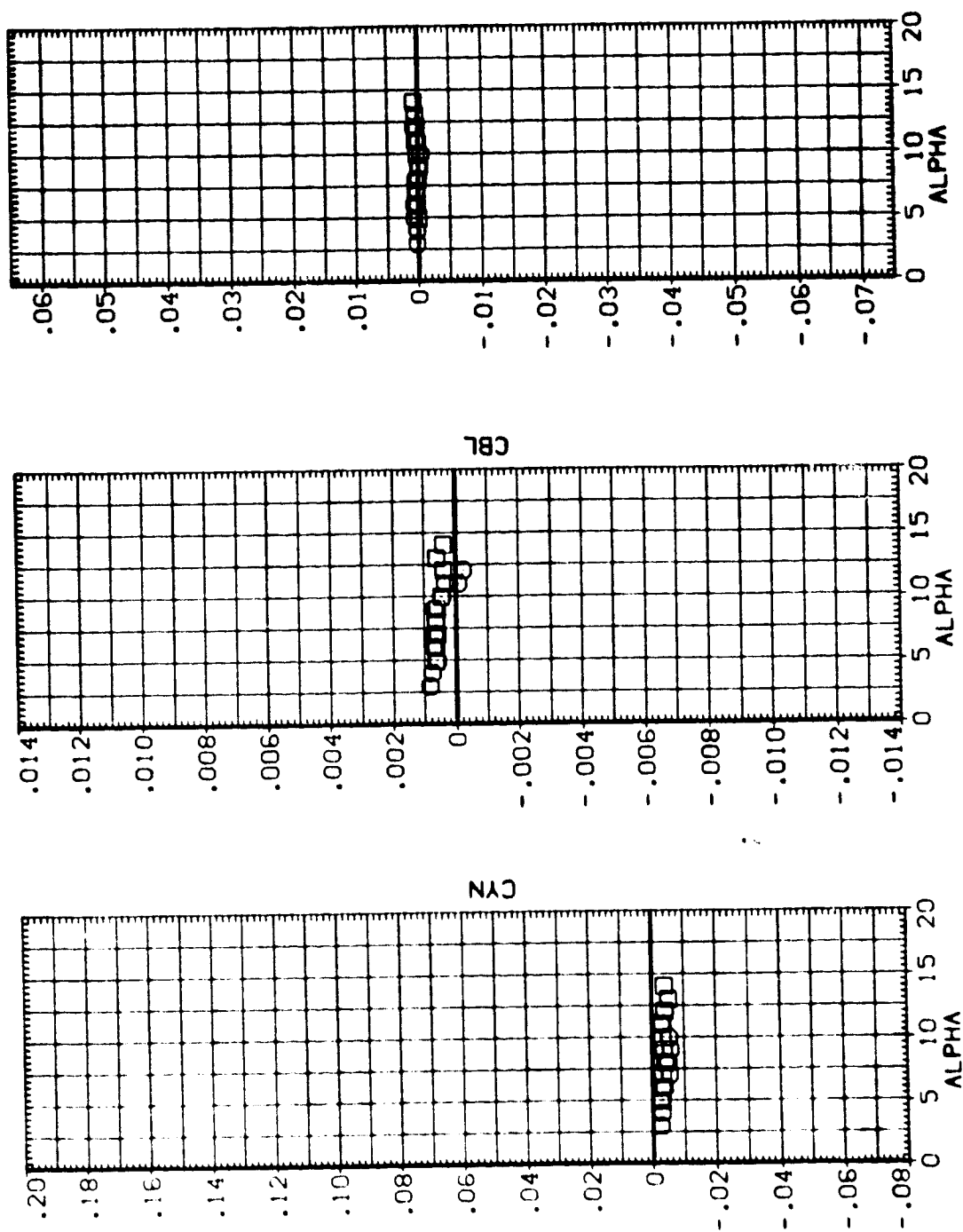


FIG.6 ORBITER MATED AERO CHARACTERISTICS (INTERPOLATED 1-OR8)

(A)MACH = .60

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DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (DE9C53) ARC14-080-1 CA23 747/1(-SI-S12)01 AT1(ORB MATED)
 (DE9C54) ARC14-080-1 CA23 747/1(-SI-S12)01 AT1(ORB MATED)

STAB-C RUD-C ELV-B IAOB8
 5.000 .000 5.000 6.000
 5.000 .000 5.000 8.000

REFERENCE INFORMATION
 SREF 2690.0000 50 FT.
 LREF 474.8100 IN.
 BREF 936.6800 IN.
 YMRP 1109.0000 IN. Y0
 YMRP .0000 IN. Y0
 ZMRP 375.0000 IN. Z0
 SCALE .0125

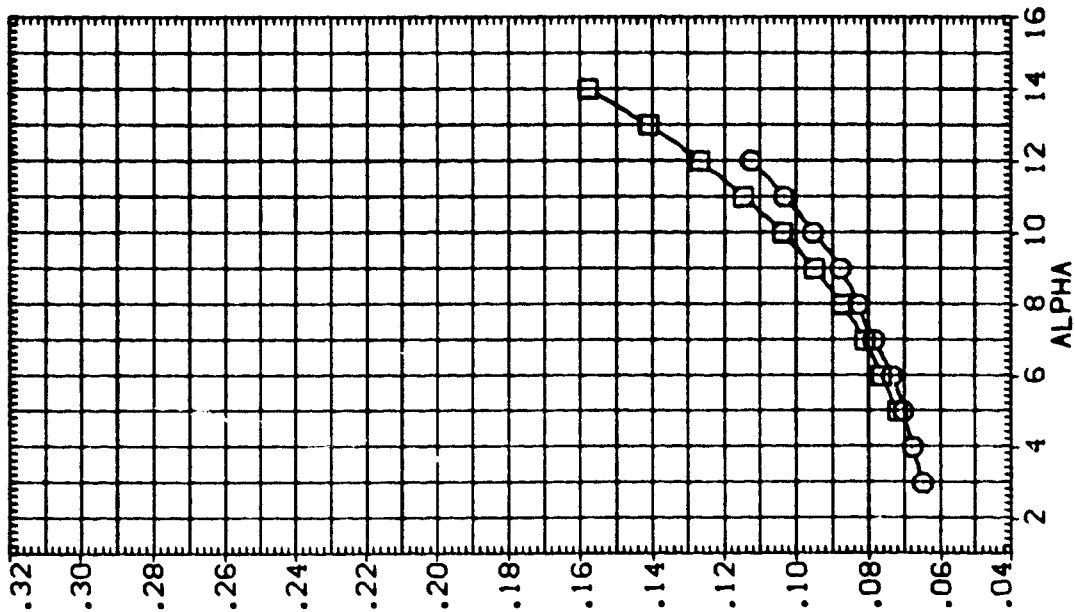
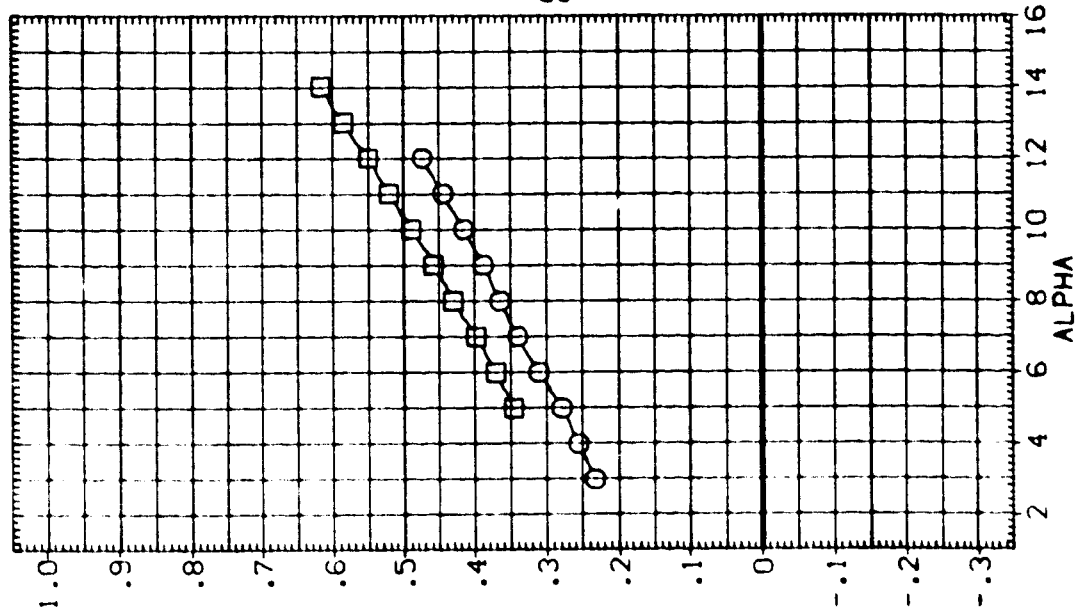


FIG.6 ORBITER MATED AERO CHARACTERISTICS (INTERPOLATED I-ORB)

(A)MACH = .60



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	STAB-C	RUD-C	ELV-B	IAORB	REFERENCE INFORMATION
(DE9C59)	ARC14-080-1 CA23 747/1 03 AT1 (ORB MATED)	-1.000	.000	.000	4.000	SREF 2690.0000 SO.FY.
(DE9C60)	ARC14-080-1 CA23 747/1 03 AT1 (ORB MATED)	-1.000	.000	.000	6.000	LREF 474.8100 IN.
						BREF 936.6800 IN.
						XMRP 1109.0000 IN. X0
						YMRP .0000 IN. Y0
						ZMRP 375.0000 IN. Z0
						SCALE .0125

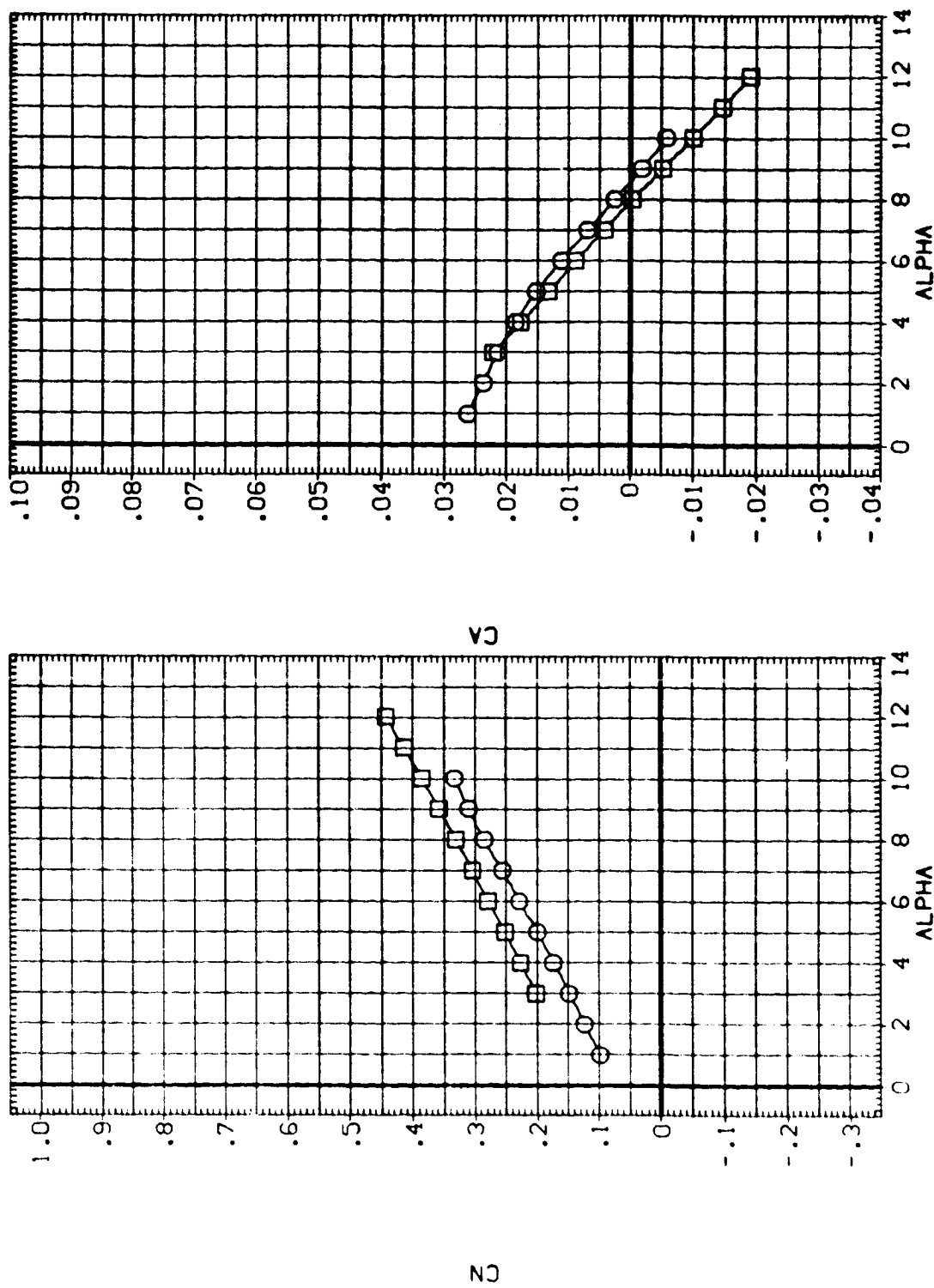


FIG.6 ORBITER MATED AERO CHARACTERISTICS (INTERPOLATED I-ORB)

(A)MACH = .60

DATA SET SYMBOL
(059559)
(059560)

CONFIGURATION DESCRIPTION
ARC14-080-1 CA23 747/1 03 AT1 (ORB MATED)
ARC14-080-1 CA23 747/1 03 AT1 (ORB MATED)

STAB-C
-1.000
-1.000

RUD-C
.000
.000

ELV-0
.000
.000

REFERENCE INFORMATION
SREF 2690.0000 SQ.FT.
LREF 474.8100 IN.
BREF 936.6800 IN.
XMRP 1109.0000 IN. X0
YMRP .0000 IN. Y0
ZMRP 375.0000 IN. Z0
SCALE .0125

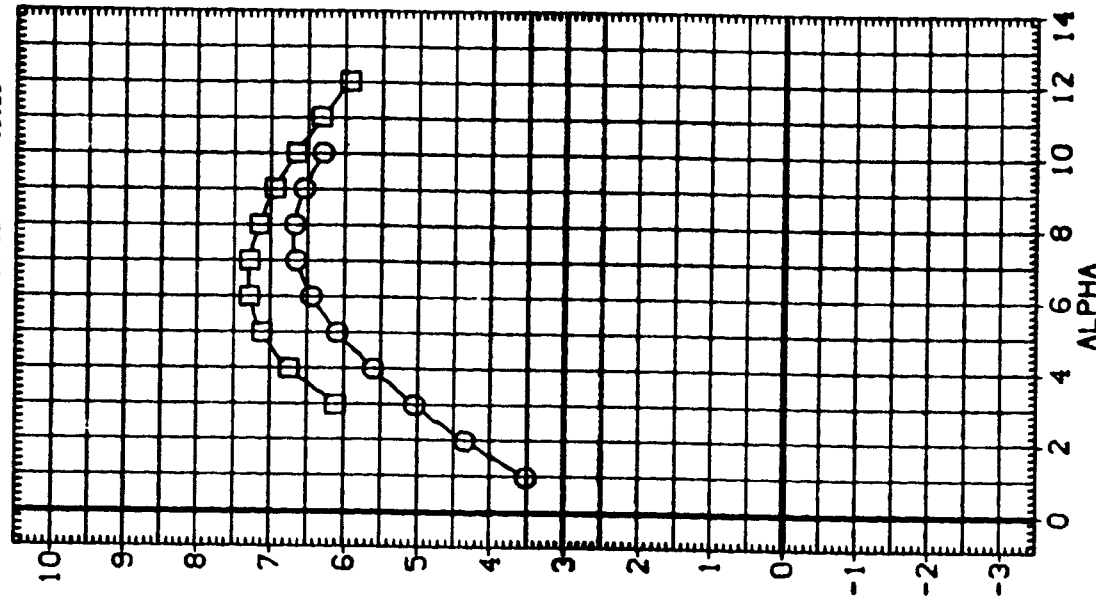
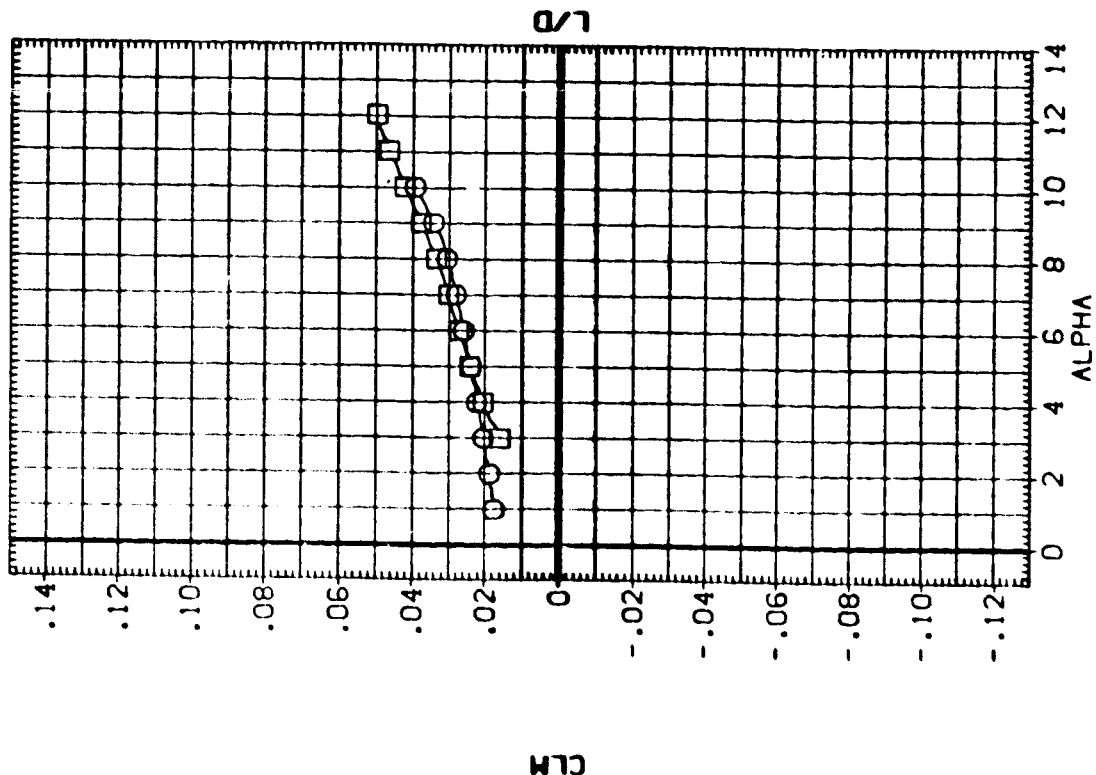


FIG.6 ORBITER MATED AERO CHARACTERISTICS (INTERPOLATED I-ORB)

(A)MACH = .60

REFERENCE INFORMATION		SO. FT.
SREF	2690.0000	IN.
LREF	474.8100	IN.
BREF	936.6800	IN.
XMRP	1109.0000	IN.
YMRP	.0000	IN.
ZMRP	375.0000	IN.
SCALE	.0125	IN.

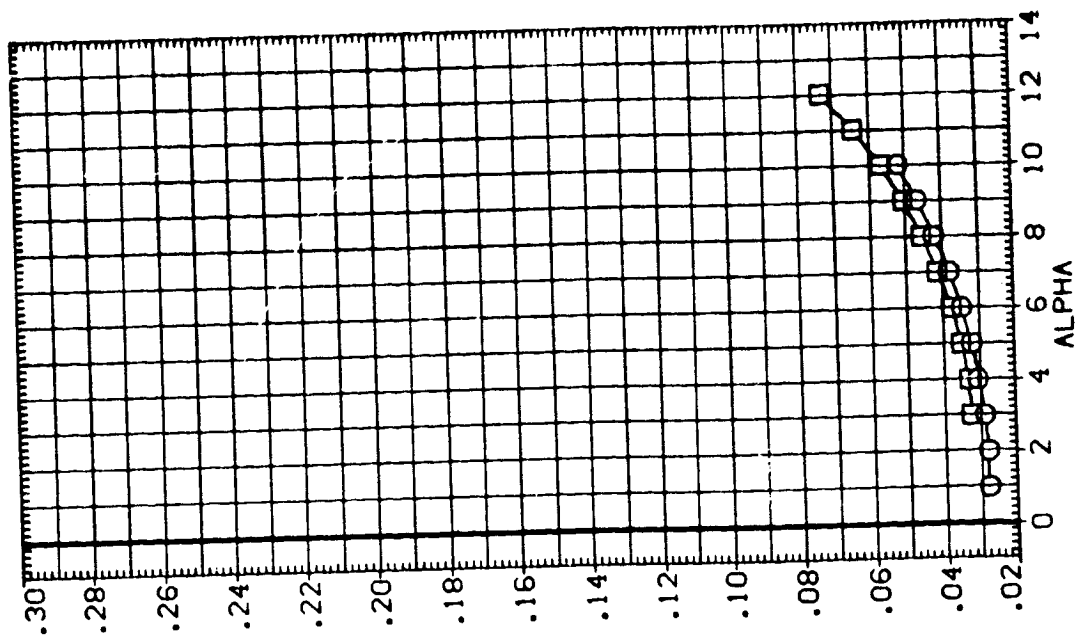
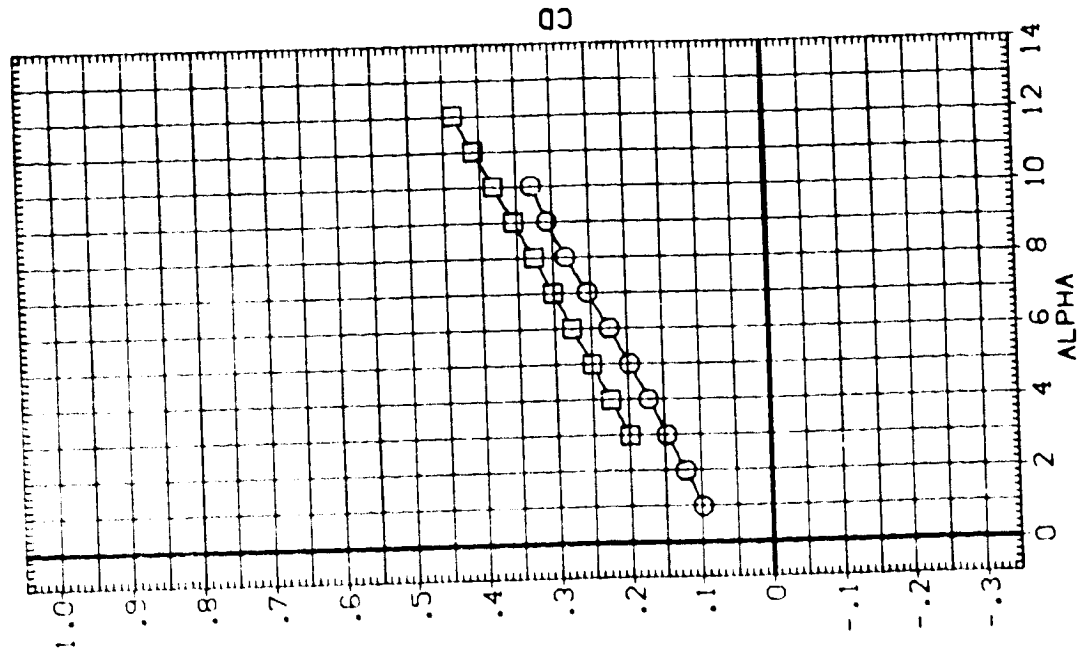



FIG. 6 ORBITTER MATED AERO CHARACTERISTICS (INTERPOLATED I-ORBIT) ALPHA

$$(\Delta)MACH = .60$$



DATA SET SYMBOL:  (DE9C64) (DE9C63)

CONFIGURATION DESCRIPTION:
 ARC14-080-1 CA23 747/1(-S1-S12)01 AT1(088 MATED)
 ARC14-080-1 CA23 747/1(-S1-S12)01 AT1(088 MATED)

BETAC: -5.000 5.000 5.000 5.000 5.000 5.000

STAG-C: 5.000 5.000 5.000 5.000 5.000 5.000

ELV-O: 5.000 5.000 5.000 5.000 5.000 5.000

IARRB: 6.000 8.000 8.000 8.000 8.000 8.000

REFERENCE INFORMATION:
 SREF: 2690.0000 SQ.FT.
 LREF: 474.8100 IN.
 BREF: 936.6800 IN.
 XHRP: 1109.0000 IN.
 YHRP: .0000 IN.
 ZHRP: 375.0000 IN.
 SCALE: .0125

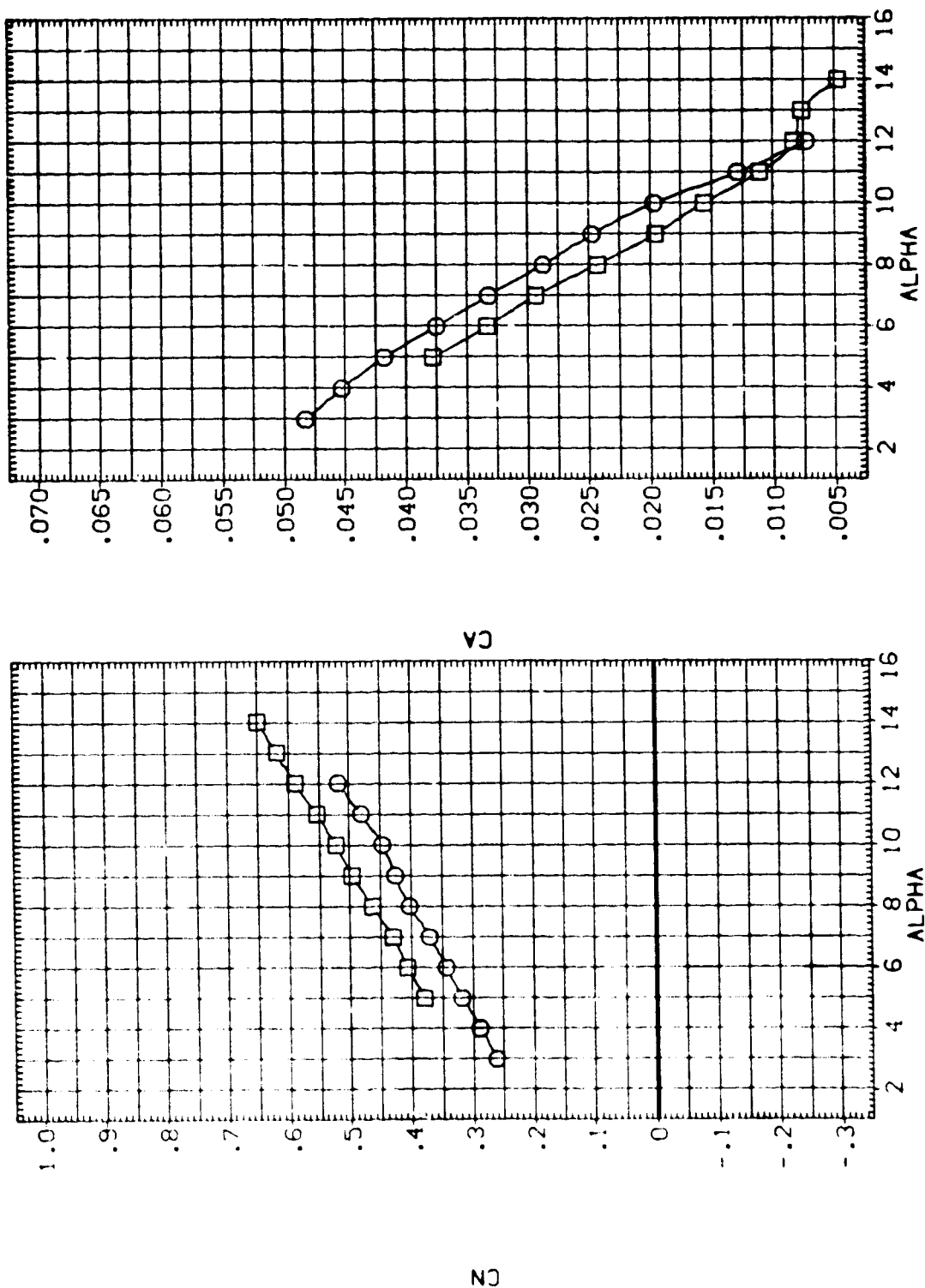


FIG.6 ORBITER MATED AERO CHARACTERISTICS (INTERPOLATED 1-088)

(A)MACH = .60

DATA SET SYMBOL
(09034)
(09033)

CONFIGURATION DESCRIPTION
ARC14 ORB : CA23 747/1(-S1-S12)01 AT1(ORB MATED)
ARC14 ORB : CA23 747/1(-S1-S12)01 AT1(ORB MATED)

BETAC STAB-C ELV-B I-ORB
-5.000 5.000 5.000 6.000
-5.000 5.000 5.000 8.000

REFERENCE INFORMATION
SREF 2690.0000 SO.FT.
LREF 474.8100 IN.
BREF 936.6800 IN.
XMRP 1109.0000 IN. X0
YMRP .0000 IN. Y0
ZMRP 375.0000 IN. Z0
SCALE .0125

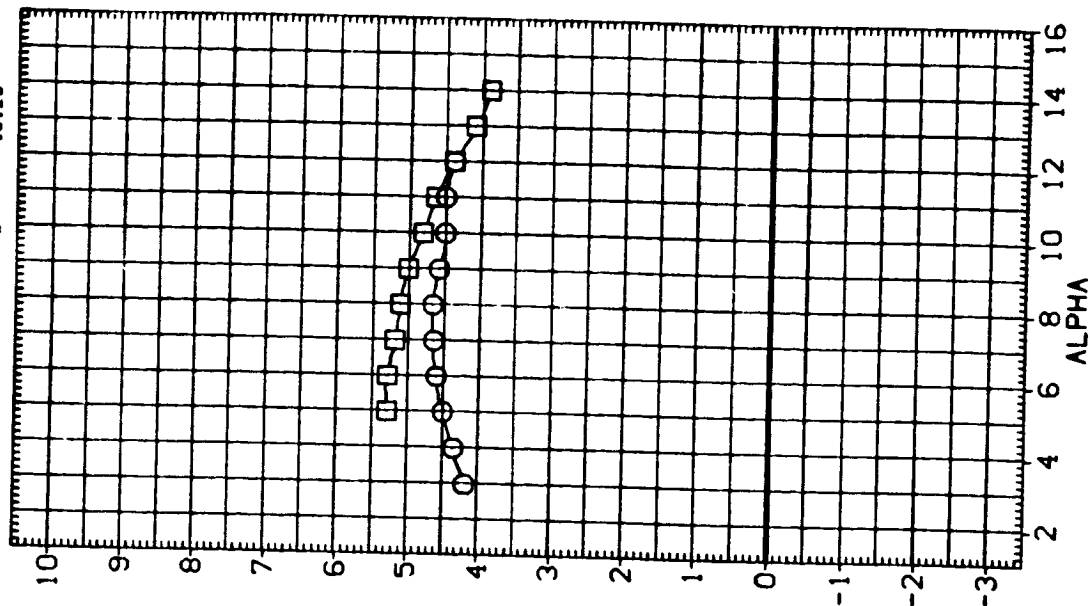
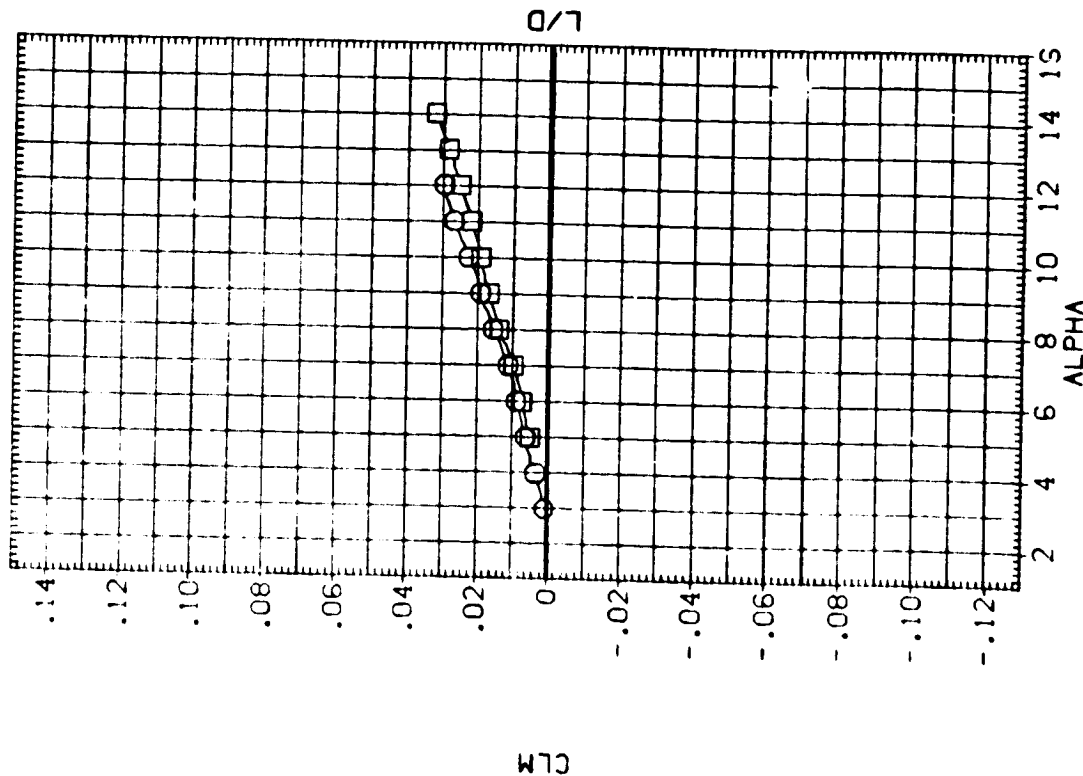


FIG.6 ORBITER MATED AERO CHARACTERISTICS (INTERPOLATED I-ORB)

(A)MACH = .60

DATA SET SYMBOL: [SE9C64] [SE9C63]

CONFIGURATION DESCRIPTION: ARC14-080-1 CA23 747/1(-SI-S12)01 AT1(OR8 MATED) ARC14-080-1 CA23 747/1(-SI-S12)01 AT1(OR8 MATED)

BETAC: -5.000 -5.000

STAB-C: 5.000 5.000

ELV-B: 5.000 5.000

IAOR8: 6.000 8.000

REFERENCE INFORMATION:

	2690.0000	50.000
SREF	474.8100	IN.
LREF	936.6800	IN.
BREF	1109.0000	IN.
YMRP	.0000	IN.
ZMRP	375.0000	IN.
SCALE	.0125	IN.

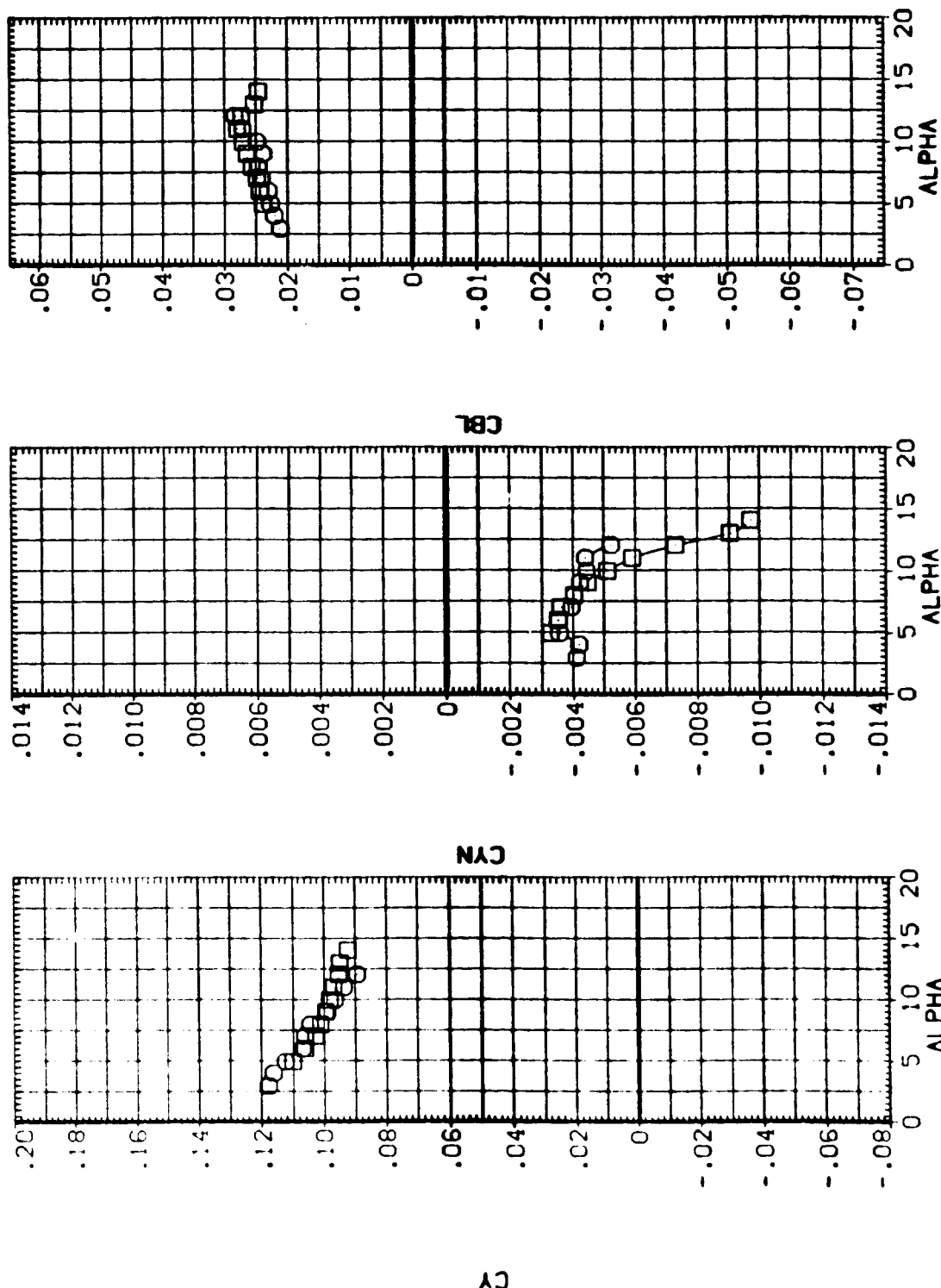


FIG.6 ORBITER MATED AERO CHARACTERISTICS (INTERPOLATED I-OR8)

(A)MACH = .60

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DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETAC	STAB-C	ELV-0	IAOR8	REFERENCE INFORMATION
(SE9054)	ARC14-080-1 CA23 747/1(-S1-S12)01 AT1(ORB MATED)	-5.000	5.000	5.000	6.000	SREF 2690.0000 SQ.FT.
(SE9063)	ARC14-080-1 CA23 747/1(-S1-S12)01 AT1(ORB MATED)	-5.000	5.000	5.000	8.000	LREF 474.8100 IN.
						BREF 936.6800 IN.
						YMRP 1109.0000 IN.
						ZMRP 375.0000 IN.
						SCALE .0125

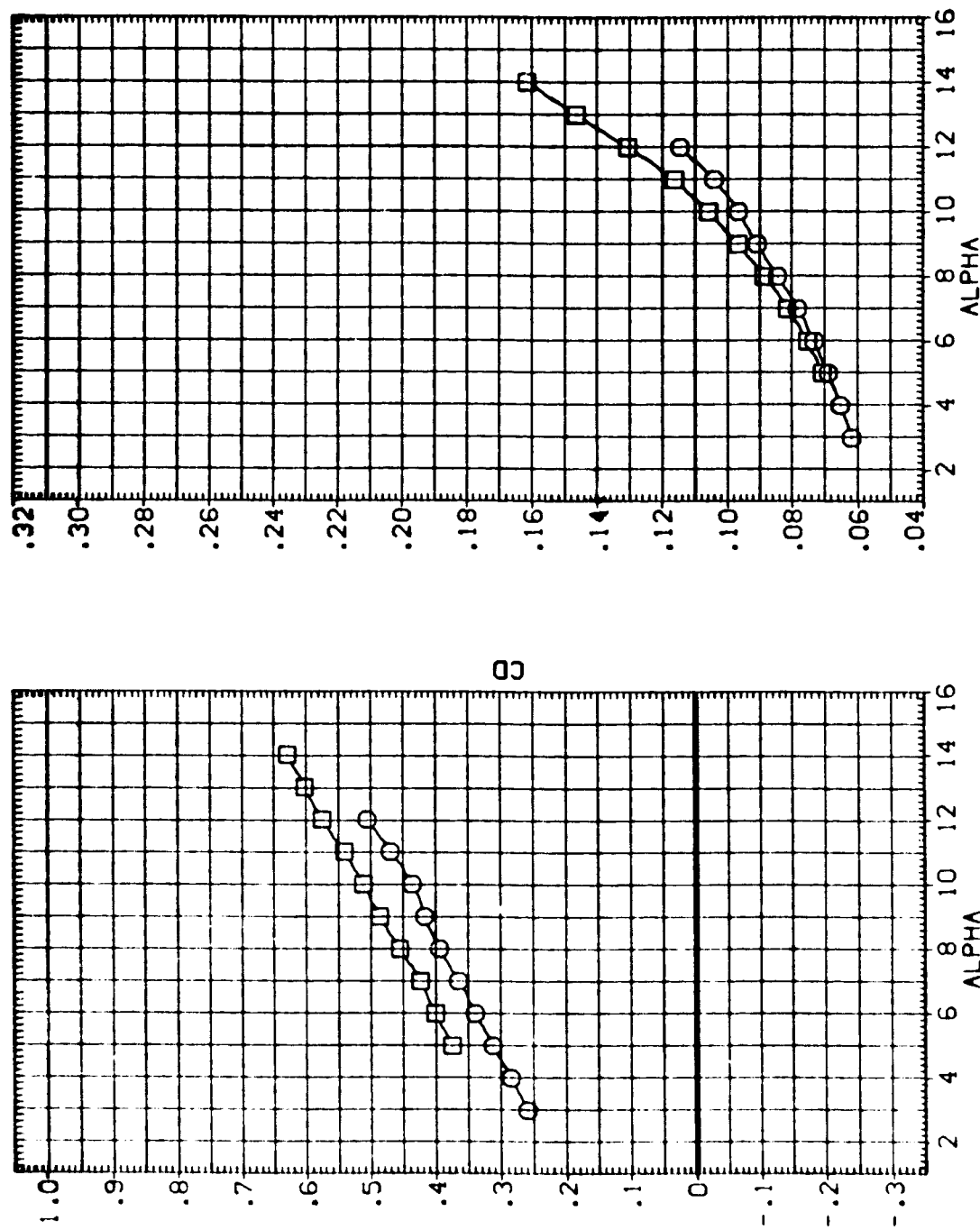


FIG.6 ORBITER MATED AERO CHARACTERISTICS (INTERPOLATED I-ORB)

(A)MACH = .60

DATA SET SYMBOL: 008
 (SE 9566)
 (SE 9567)
 (SE 9568)

CONFIGURATION DESCRIPTION
 ARC14-080-1 CA23 747/1 01 ATI (ORB MATED)
 ARC14-080-1 CA23 747/1 01 ATI (ORB MATED)
 ARC14-080-1 CA23 747/1 01 ATI (ORB MATED)

BETAC STAB-C ELV-0 IAOB8
 -5.000 5.000 4.000
 -5.000 5.000 6.000
 -5.000 5.000 8.000

REFERENCE INFORMATION
 SREF 2690.0000 50.FT.
 LREF 474.8100 IN.
 BREF 936.6800 IN. 30
 XMRP 1109.0000 IN. 30
 YMRP 375.0000 IN. 26
 ZMRP 375.0000 IN. 26
 SCALE .0125

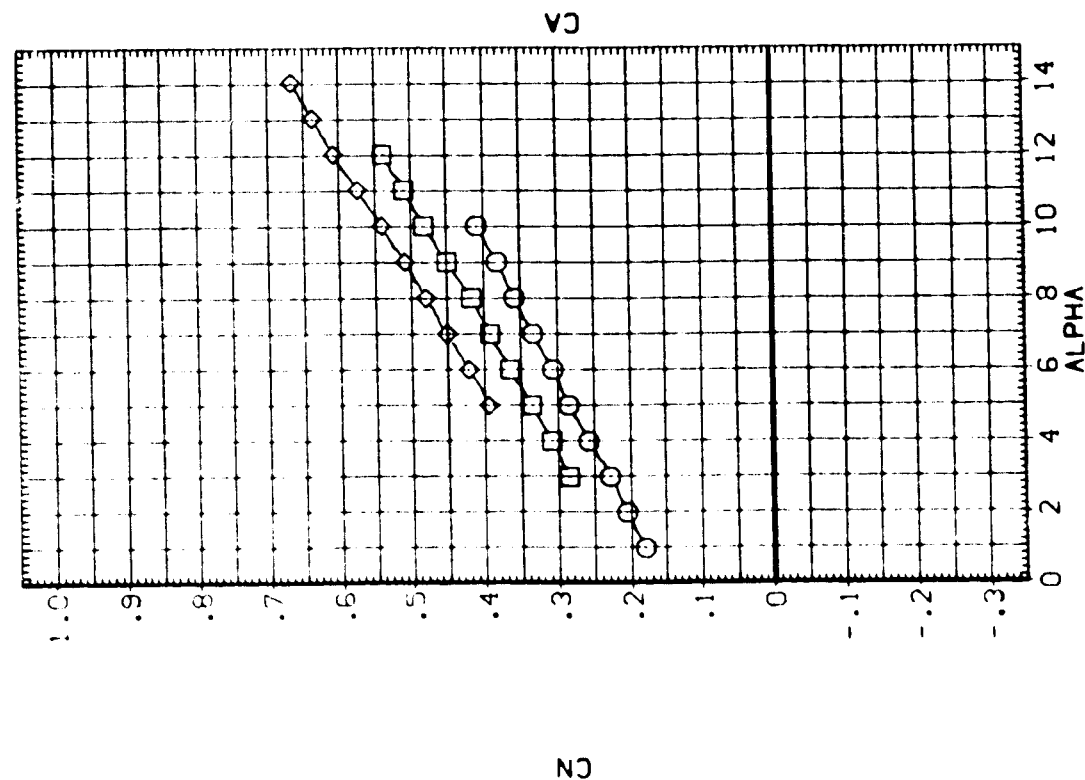
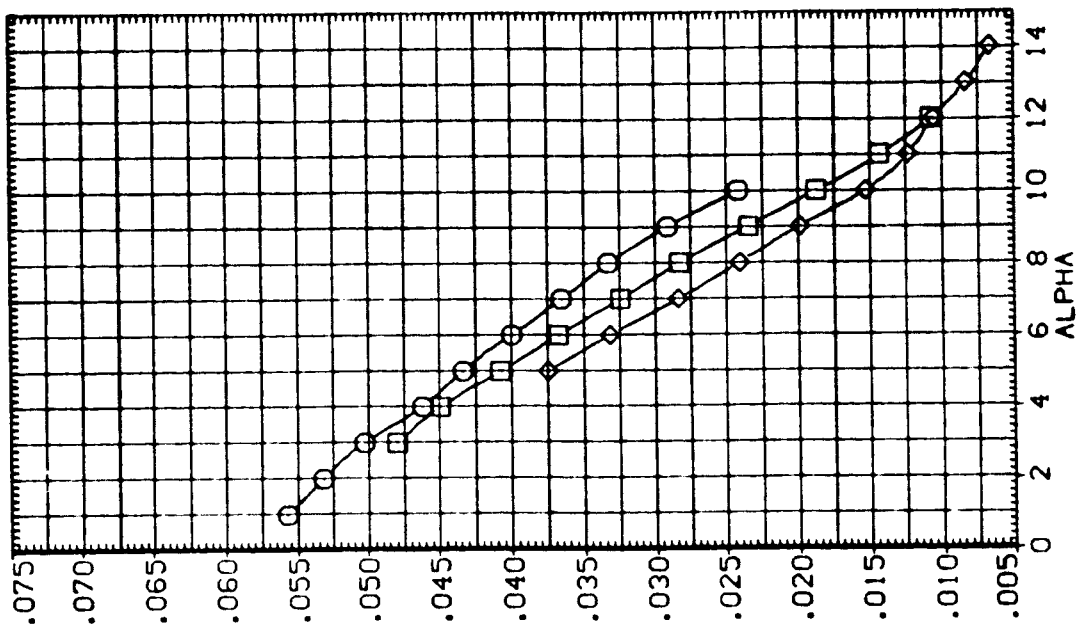


FIG.6 ORBITER MATED AERO CHARACTERISTICS (INTERPOLATED I-ORB)

(A)MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION

ARC14-080-1 CA23 747/1 01 AT1 (ORB MATED)
 ARC14-080-1 CA23 747/1 01 AT1 (ORB MATED)
 ARC14-080-1 CA23 747/1 01 AT1 (ORB MATED)

BETAC STAB-C ELV-0 IAO RB
 -5.000 5.000 4.000
 -5.000 5.000 6.000
 -5.000 5.000 8.000

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 474.8100 IN.
 BREF 936.6800 IN.
 XMRP 1109.0000 IN. X0
 YMRP .0000 IN. Y0
 ZMRP 375.0000 IN. Z0
 SCALE .0125

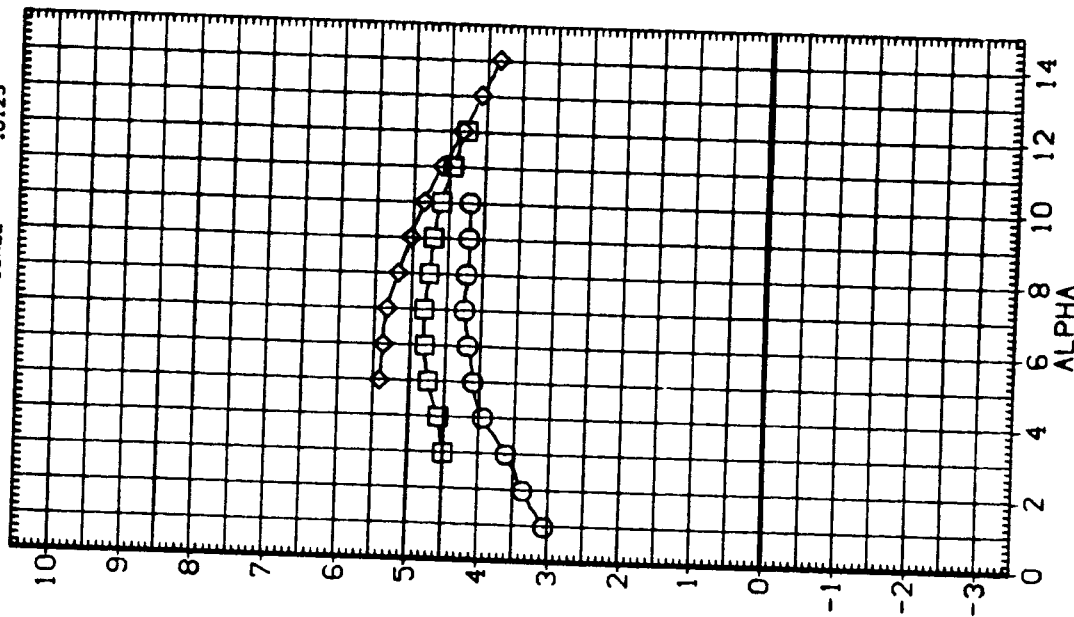
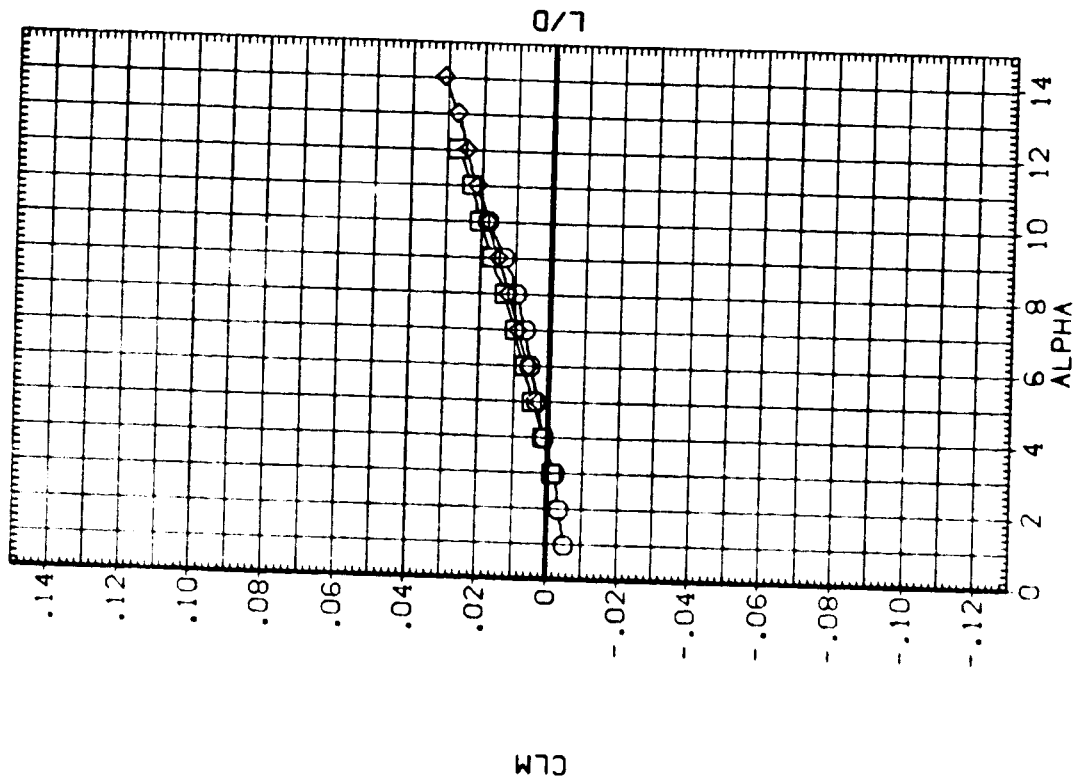


FIG.6 ORBITER MATED AERO CHARACTERISTICS (INTERPOLATED I-ORB)

(A) MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETAC	STAB-C	ELV-D	IAORB	REFERENCE INFORMATION
(0E9366)	ARC14-080-1 CA23 747/1 01 AT1 (ORB MATED)	-5.000	5.000	5.000	4.000	SREF 2690.0000 SO.FT.
(0E9365)	ARC14-080-1 CA23 747/1 01 AT1 (ORB MATED)	-5.000	5.000	5.000	6.000	LREF 474.8100 IN.
(0E9367)	ARC14-080-1 CA23 747/1 01 AT1 (ORB MATED)	-5.000	5.000	5.000	8.000	BREF 936.6800 IN.
						XMRP 1109.0000 IN. X0
						YMRP 375.0000 IN. Y0
						ZMRP 0.0125 IN. Z0
						SCALE

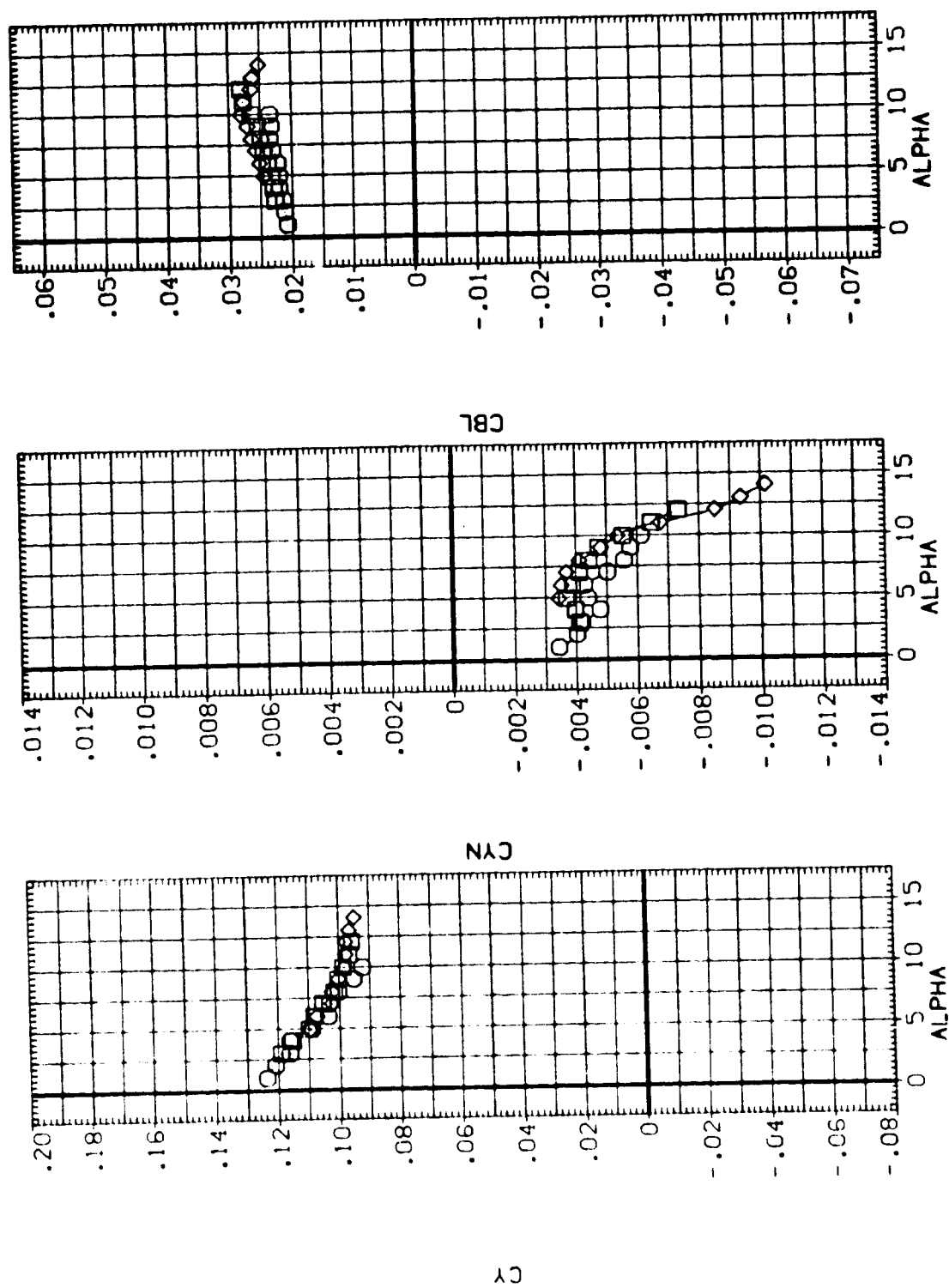


FIG.6 ORBITER MATED AERO CHARACTERISTICS (INTERPOLATED I-ORB)
 (A)MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION

DATA SET SYMBOL	CONFIGURATION	DESCRIPTION
ARC14-080-1	CA23 747/1 01 AT1	(ORB MATED)
ARC14-080-1	CA23 747/1 01 AT1	(ORB MATED)
ARC14-080-1	CA23 747/1 01 AT1	(ORB MATED)

BETAC STAB-C ELV-B IAOB8

BETAC	STAB-C	ELV-B	IAOB8
-2.000	5.000	5.000	4.000
-5.000	5.000	5.000	6.000
-5.000	5.000	5.000	8.000

REFERENCE INFORMATION

REF	SO.FT.
SREF	2690.0000
LREF	474.8100
BREF	936.6800
XMRP	1109.0000
YMRP	375.0000
ZMRP	0.0125
SCALE	20

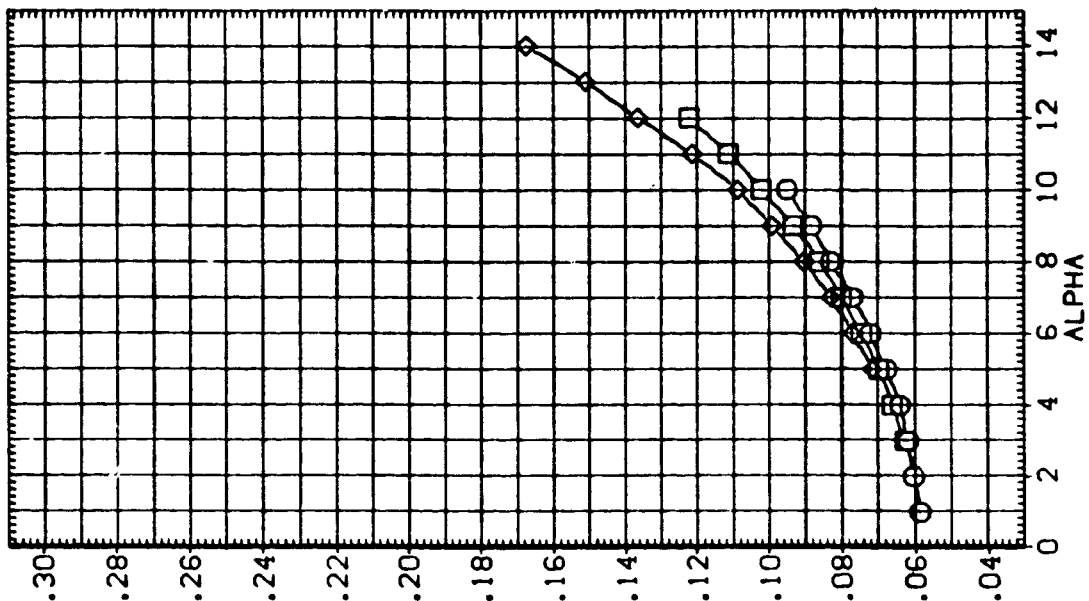
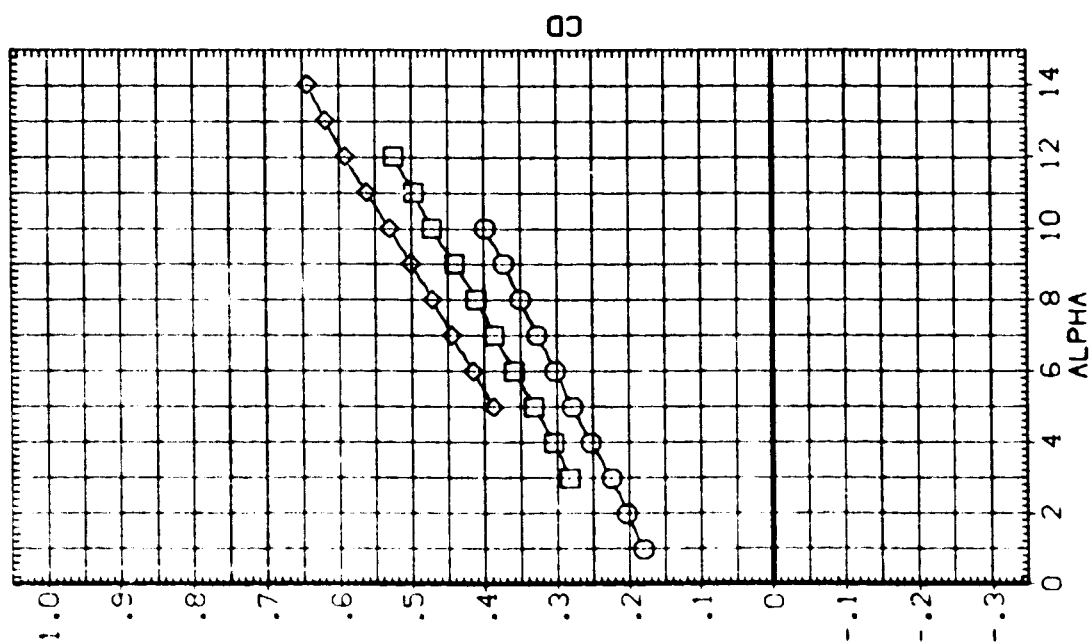


FIG.6 ORBITER MATED AERO CHARACTERISTICS (INTERPOLATED I-ORB)

(A)MACH = .60

DATA SET 51463. CONFIGURATION DESCRIPTION
 (BE9873) ARC14-060-1 CA23 747/1 AT1 (CARRIER ISOLATED)

BETAC STAB-C RUO-C
 -5.000 5.000 .000

REFERENCE INFORMATION
 SREF 5500.0000 SQ.FT.
 LREF 327.7800 IN.
 BREF 2348.0400 IN.
 XMRP 1339.5000 IN. XC
 YMRP .0000 IN. YC
 ZMRP 190.7500 IN. ZC
 SCALE .0125

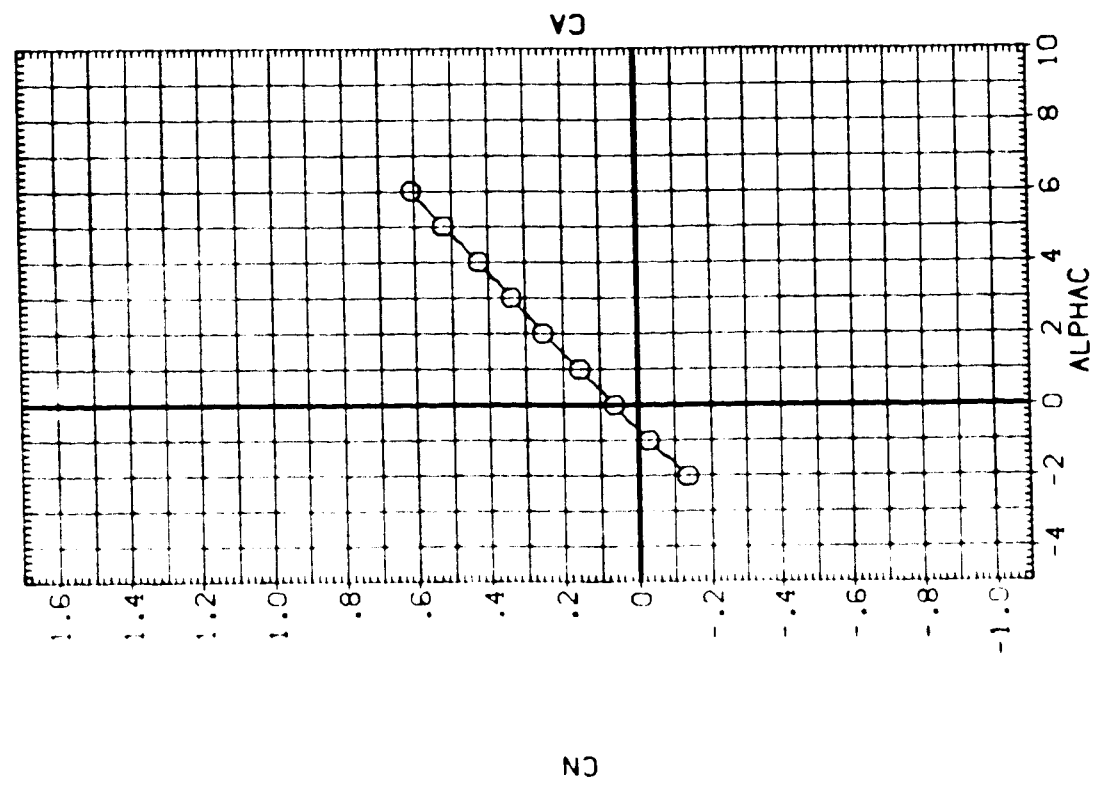
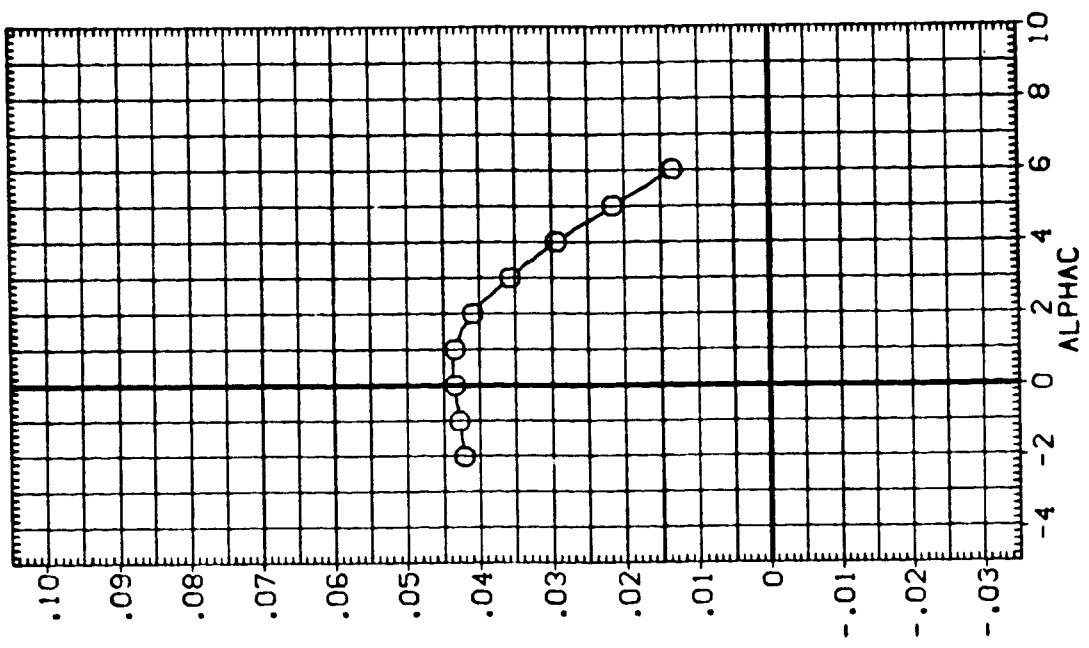


FIG.7 CARRIER ISOLATED AERO CHARACTERISTICS

(A)MACH = .60

DATA SET SYMBOL: C
 CONFIGURATION DESCRIPTION: ARC14-080-1; CA23 747/1 AT1 (CARRIER ISOLATED)

BETAC: -5.000
 STAB-C: 5.000
 RUJ-C: .000

REFERENCE INFORMATION
 SREF: 5500.0000 SQ.FT.
 LREF: 327.7800 IN.
 BREF: 2346.0400 IN. XC
 XMRP: 1339.5000 IN. YC
 YMRP: .0000 IN. ZC
 ZMRP: 190.7500 IN. ZC
 SCALE: .0125

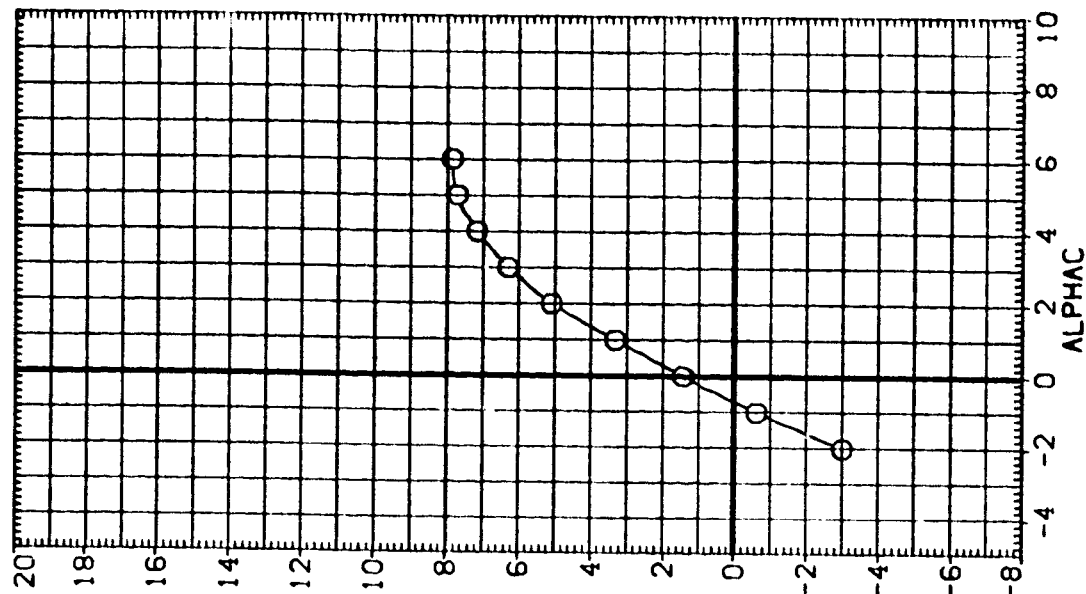
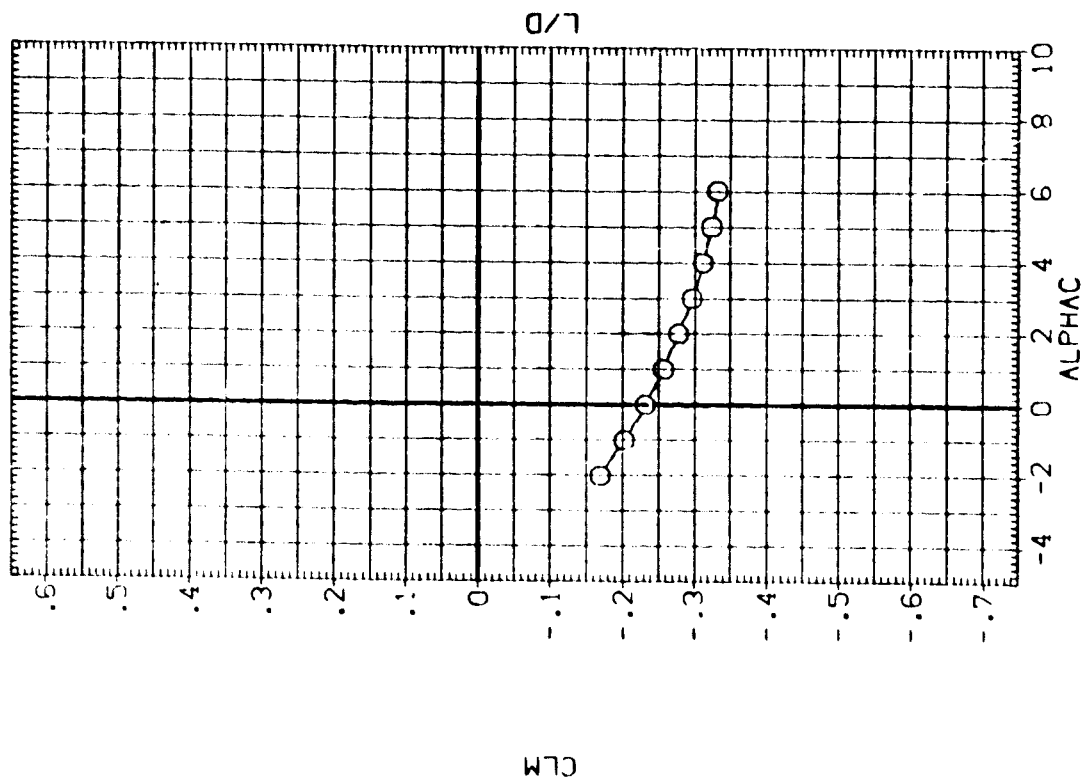


FIG.7 CARRIER ISOLATED AERO CHARACTERISTICS

(A) MACH = .60



DATA SET SYMBOL (8E98C9) ○ CONFIGURATION DESCRIPTION ARC14-080-1 CA23 747/1 AT1 (CARRIER ISOLATED)

BETAC -5.000 STAB-C 5.000 RUD-C .000

REFERENCE INFORMATION
SREF 5500.0000 50.FT.
LREF 327.7800 IN.
BREF 2348.0400 IN.
XMRP 1339.9000 IN. XC
YMRP 190.7500 IN. YC
ZMRP .0125 IN. ZC
SCALE

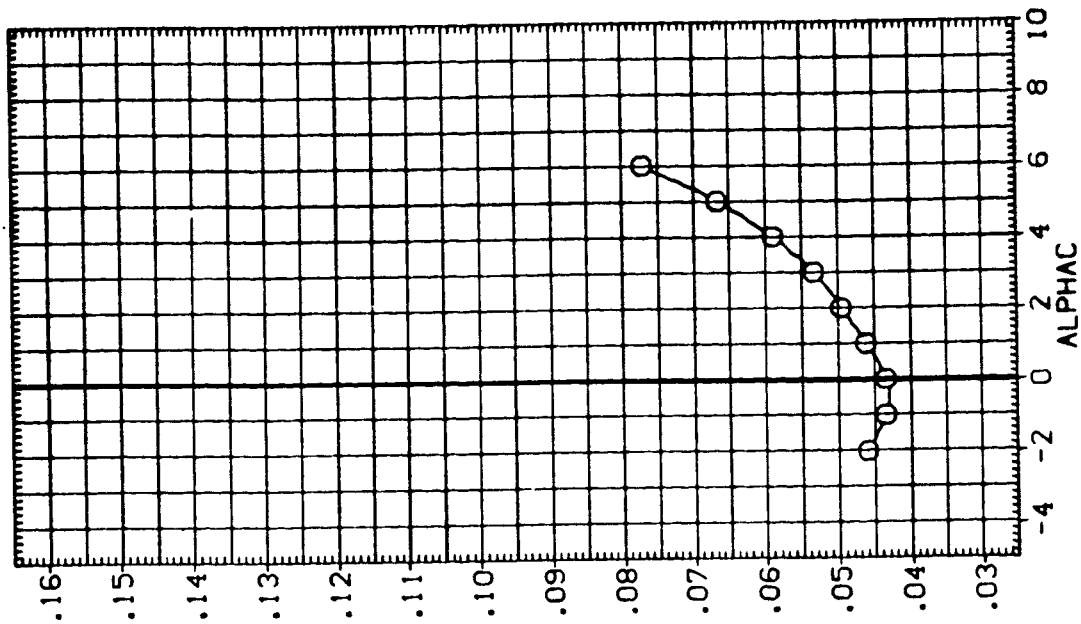
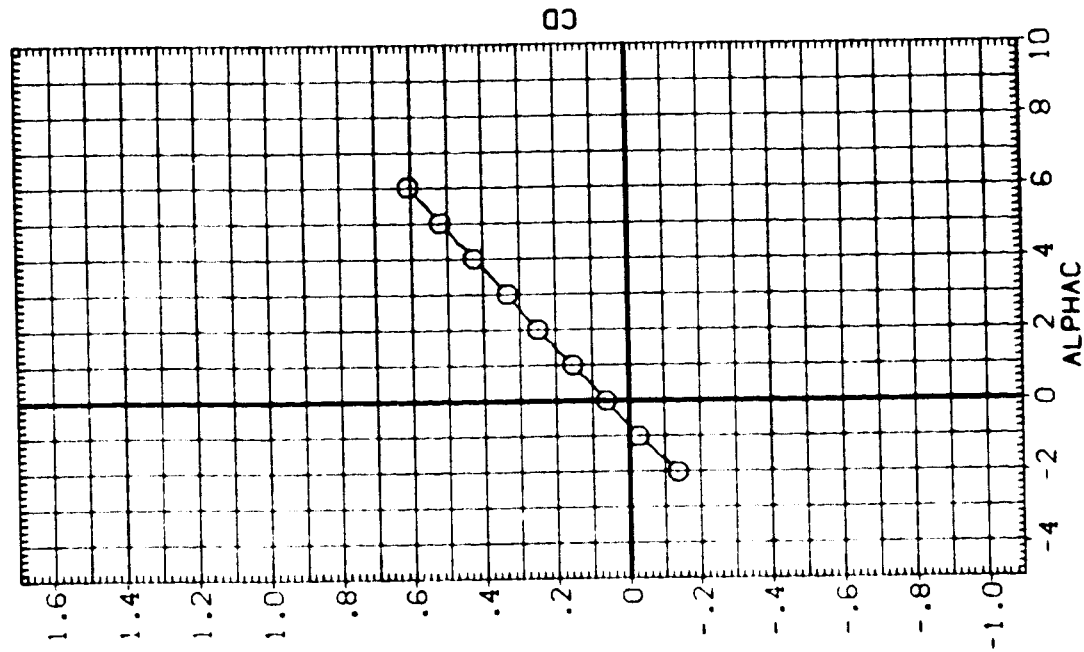


FIG.7 CARRIER ISOLATED AERO CHARACTERISTICS

(A)MACH = .60

DATA SET SYMBOL (9C9BC9) O

CONFIGURATION DESCRIPTION
ARC14-080-1 CA23 747/1 AT1 (CARRIER ISOLATED)

BETAC -5.000 STAB-C 5.000 RUO-C .000

REFERENCE INFORMATION
SREF 5500.0000 50.FT.
LREF 327.7800 IN.
BREF 2348.0400 IN.
XMRP 1339.0000 IN.
YMRP 190.7500 IN.
ZMRP .0125 IN.
SCALE

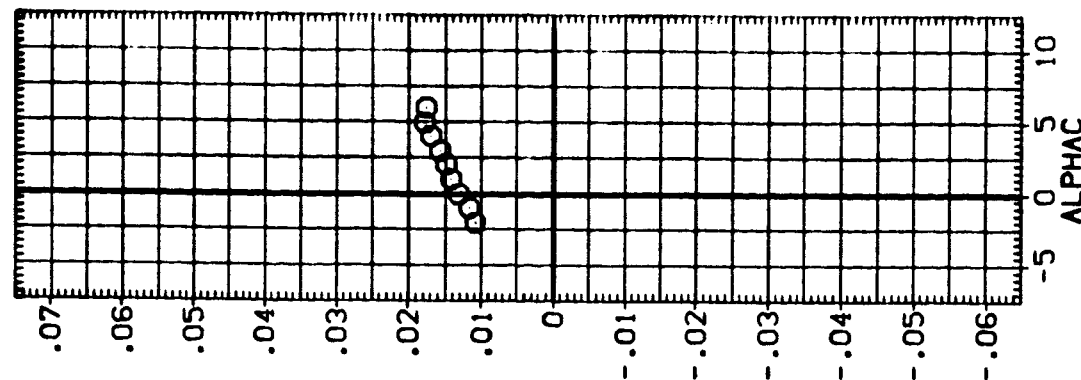
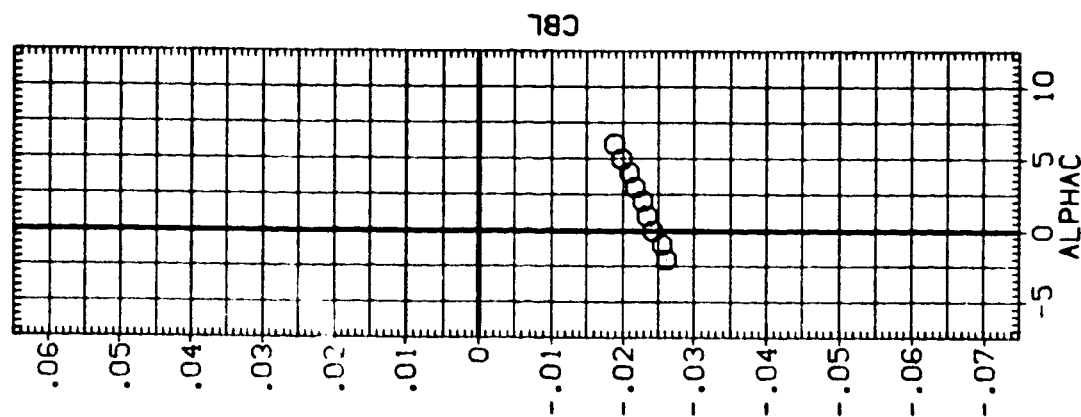
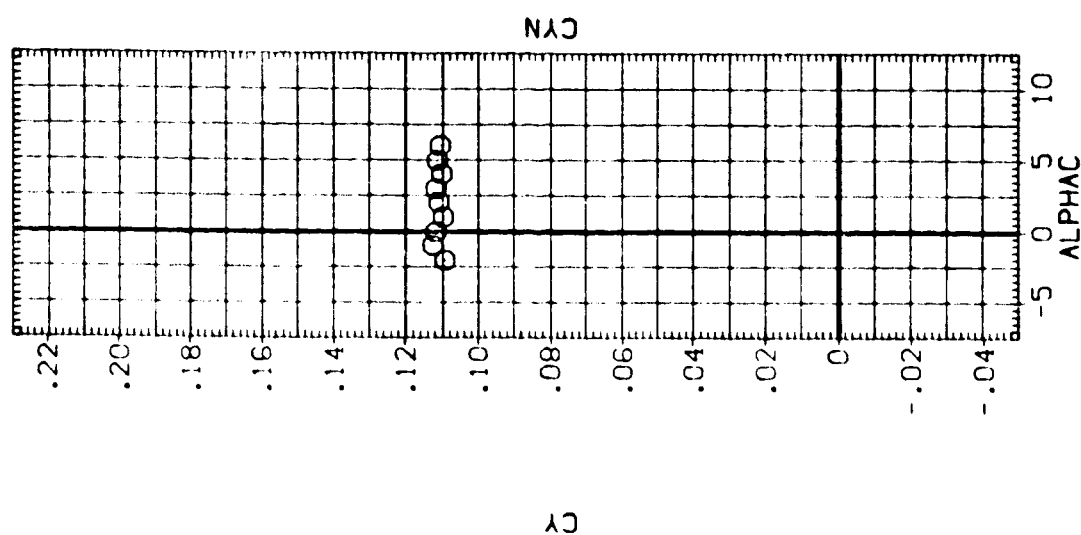


FIG.7 CARRIER ISOLATED AERO CHARACTERISTICS

(A)MACH = .60



DATA SET SYMBOL: (BE9810) ☐ CONFIGURATION DESCRIPTION: ARC 14-080-1 CA23 747/2 (CARRIER ISOLATED)

BETAC -5.000 STAB-C 5.000 RUO-C .000

REFERENCE INFORMATION
 SREF 5500.0000 SO.FT.
 LREF 327.7800 IN.
 BREF 2348.0400 IN.
 YMRP 1338.9000 IN.
 YMRP 190.7500 IN.
 SCALE .0125

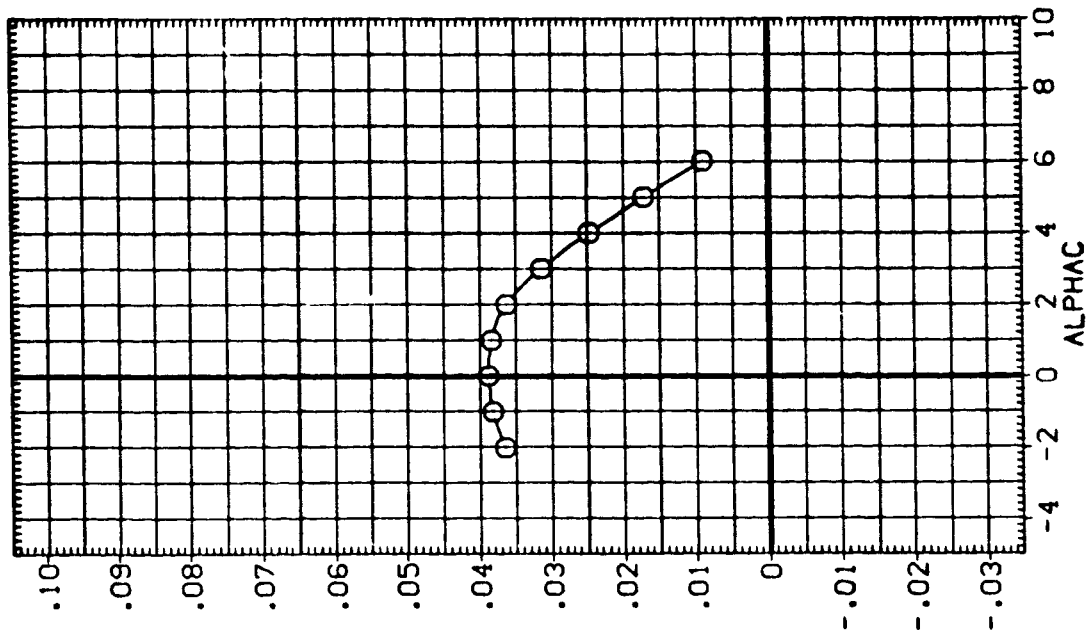
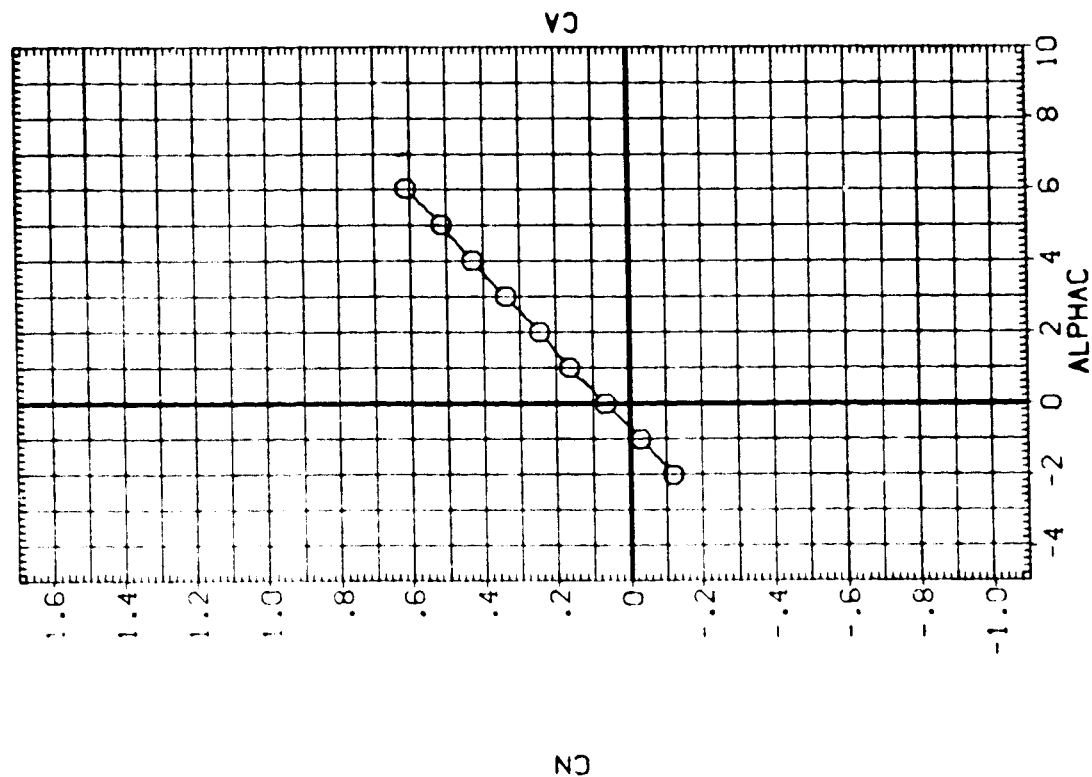


FIG.7 CARRIER ISOLATED AERO CHARACTERISTICS

(A)MACH = .60

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 REFERENCE: 100-080-1 CA23 747/2 (CARRIER ISOLATED)

BETAC -5.000 STAB-C 5.000 RUD-C .000

REFERENCE INFORMATION
 SREF 5500.0000 SQ.FT.
 LREF 327.7800 IN.
 BREF 2348.0400 IN.
 XMRP 1339.9000 IN. XC
 YMRP .0000 IN. YC
 ZMRP 190.7500 IN. ZC
 SCALE .0125

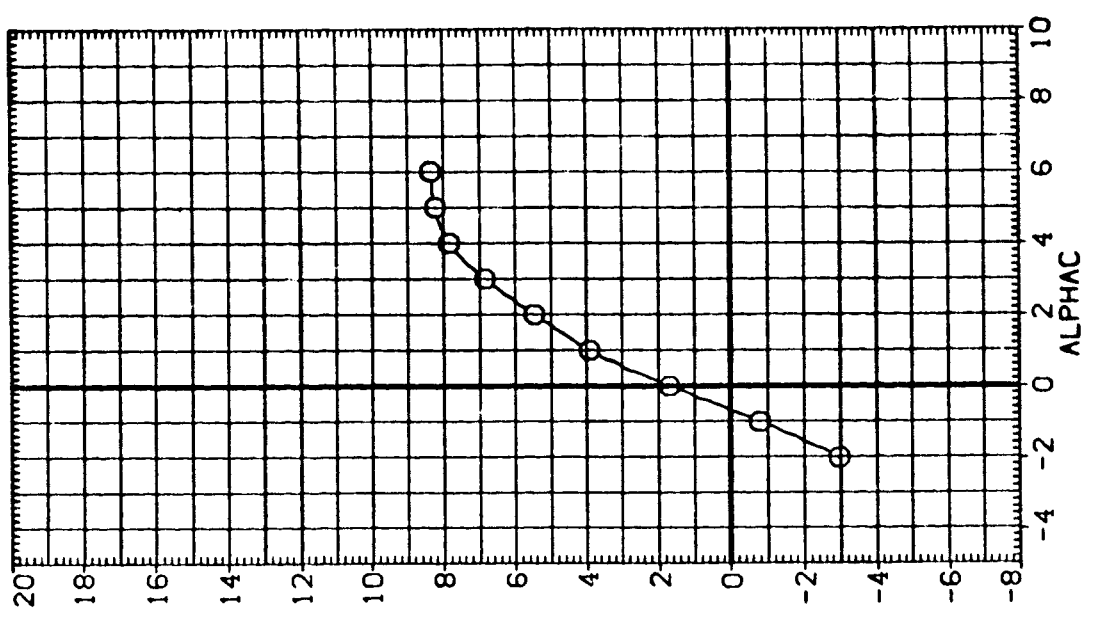
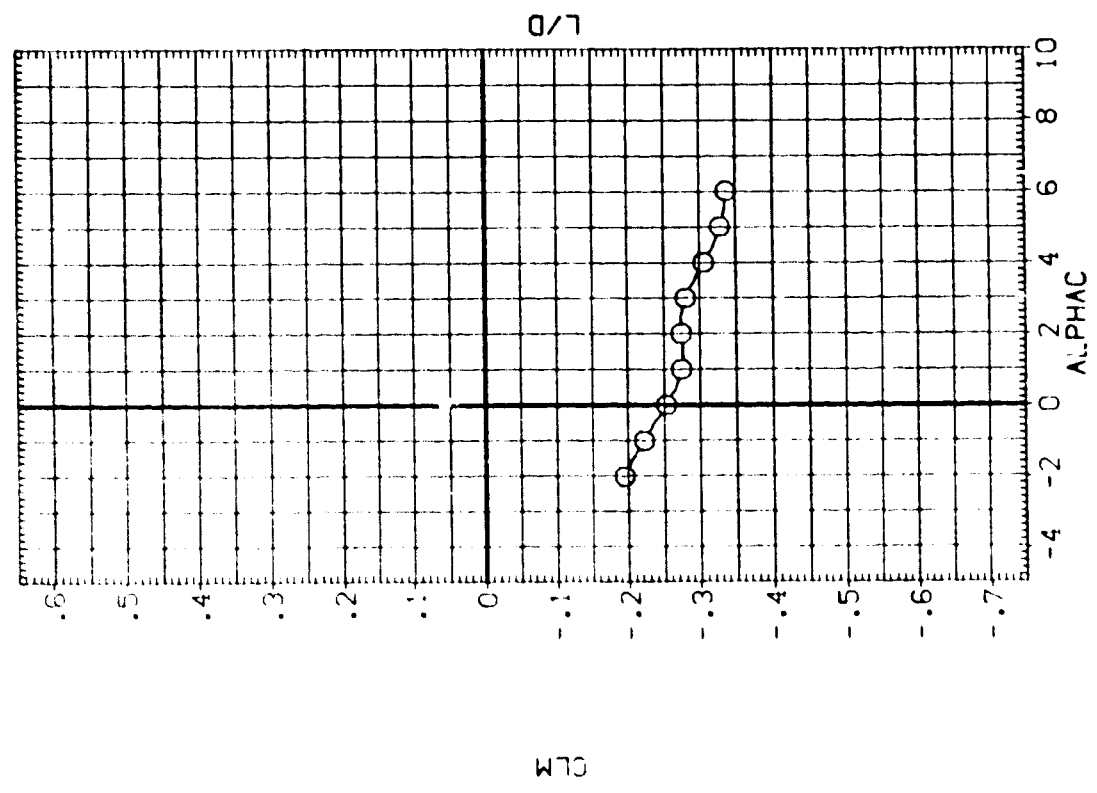


FIG.7 CARRIER ISOLATED AERO CHARACTERISTICS

CAD MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (BE9810) ○ ARC14-080-1 CA23 747/2 (CARRIER ISOLATED)

BETAC STAB-C RUO-C
 -5.000 5.000 .000

REFERENCE INFORMATION
 SREF 5500.0000 50.000
 LREF 327.7800 IN.
 BREF 2348.0400 IN.
 XMRP 1339.9000 IN.
 YMRP .0000 IN.
 ZMRP 190.7500 IN.
 SCALE .0125

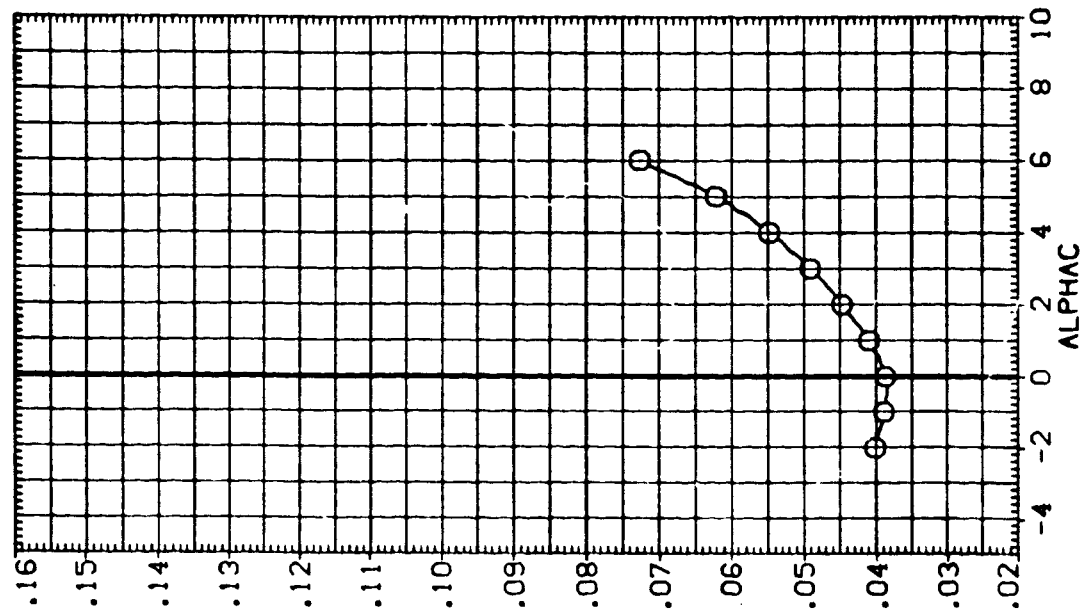
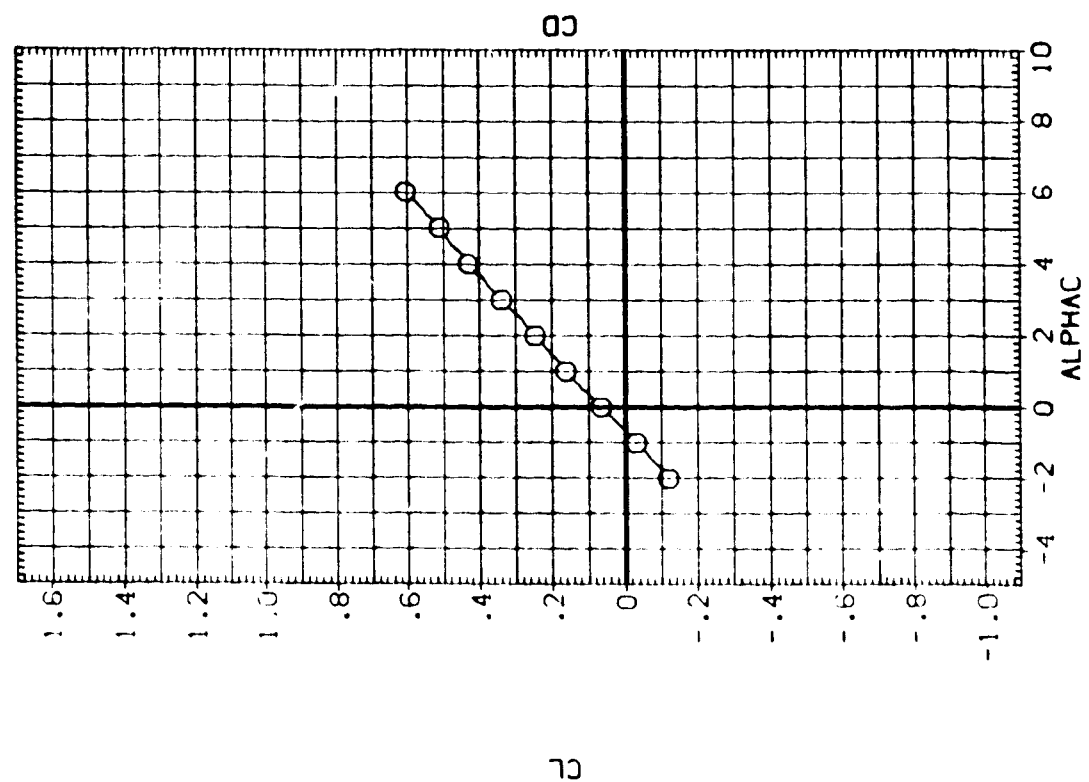


FIG.7 CARRIER ISOLATED AERO CHARACTERISTICS

(A)MACH = .60

REFERENCE INFORMATION
 SREF 5500.0000 SQ.FT.
 LREF 327.7800 IN.
 BREF 2348.0400 IN.
 XMRP 1339.9000 IN.
 YMRP .0000 IN.
 ZMRP 190.7500 IN.
 SCALE .0125

BETAC STAB-C RUO-C
 -5.000 5.000 .000

DATA SET SYMB 1. COMPARISON DESCRIPTION
 (REGRESS) O AR014 (BCH) CA23 747/2 (CARRIER ISOLATED)

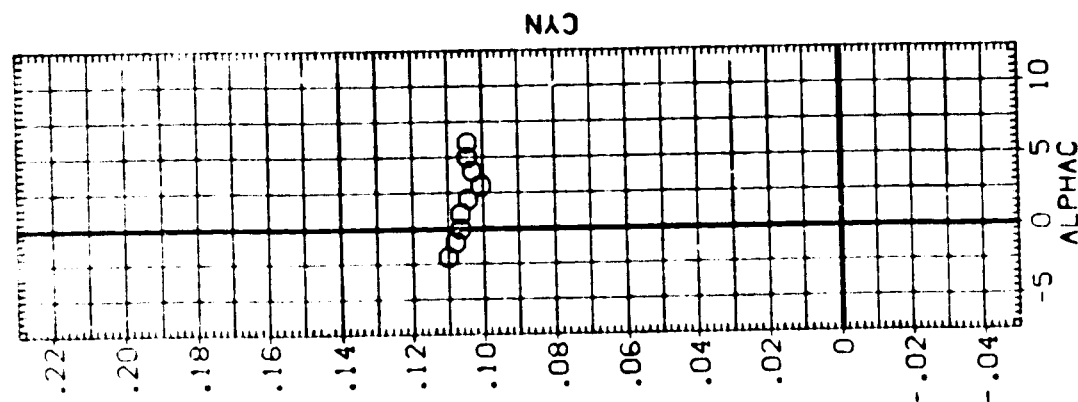
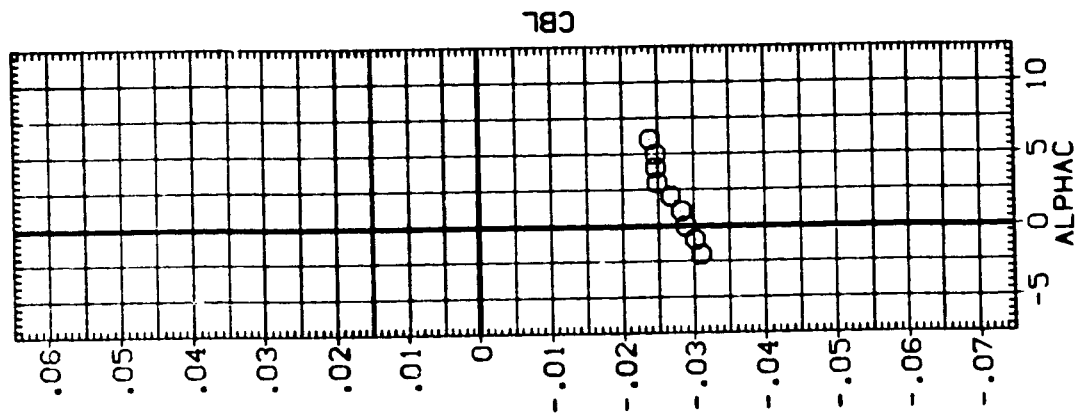
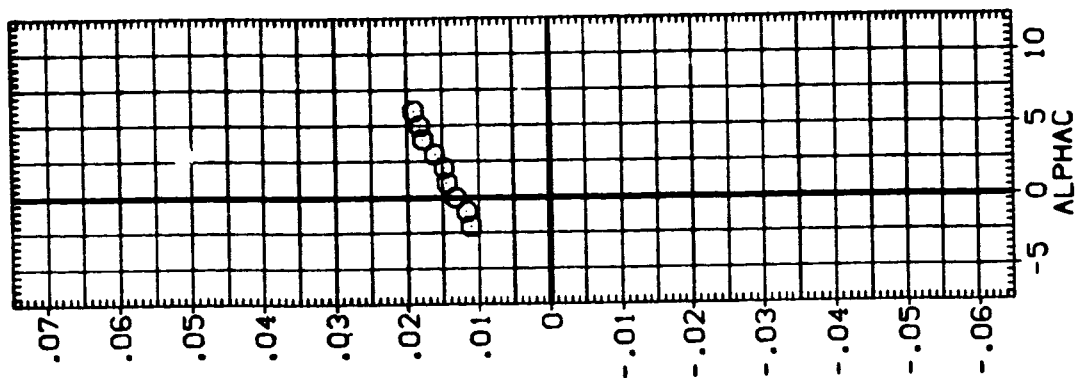


FIG.7 CARRIER ISOLATED AERO CHARACTERISTICS

(A)MACH = .60



DATA SET SYMBOL: (B) (C) (D) (E) (F) (G) (H) (I) (J) (K) (L) (M) (N) (O) (P) (Q) (R) (S) (T) (U) (V) (W) (X) (Y) (Z) (AA) (AB) (AC) (AD) (AE) (AF) (AG) (AH) (AI) (AJ) (AK) (AL) (AM) (AN) (AO) (AP) (AQ) (AR) (AS) (AT) (AU) (AV) (AW) (AX) (AY) (AZ) (BA) (BB) (BC) (BD) (BE) (BF) (BG) (BH) (BI) (BJ) (BK) (BL) (BM) (BN) (BO) (BP) (BQ) (BR) (BS) (BT) (BU) (BV) (BW) (BX) (BY) (BZ) (CA) (CB) (CC) (CD) (CE) (CF) (CG) (CH) (CI) (CJ) (CK) (CL) (CM) (CN) (CO) (CP) (CQ) (CR) (CS) (CT) (CU) (CV) (CW) (CX) (CY) (CZ) (DA) (DB) (DC) (DD) (DE) (DF) (DG) (DH) (DI) (DJ) (DK) (DL) (DM) (DN) (DO) (DP) (DQ) (DR) (DS) (DT) (DU) (DV) (DW) (DX) (DY) (DZ) (EA) (EB) (EC) (ED) (EE) (EF) (EG) (EH) (EI) (EJ) (EK) (EL) (EM) (EN) (EO) (EP) (EQ) (ER) (ES) (ET) (EU) (EV) (EW) (EX) (EY) (EZ) (FA) (FB) (FC) (FD) (FE) (FF) (FG) (FH) (FI) (FJ) (FK) (FL) (FM) (FN) (FO) (FP) (FQ) (FR) (FS) (FT) (FU) (FV) (FW) (FX) (FY) (FZ) (GA) (GB) (GC) (GD) (GE) (GF) (GG) (GH) (GI) (GJ) (GK) (GL) (GM) (GN) (GO) (GP) (GQ) (GR) (GS) (GT) (GU) (GV) (GW) (GX) (GY) (GZ) (HA) (HB) (HC) (HD) (HE) (HF) (HG) (HH) (HI) (HJ) (HK) (HL) (HM) (HN) (HO) (HP) (HQ) (HR) (HS) (HT) (HU) (HV) (HW) (HX) (HY) (HZ) (IA) (IB) (IC) (ID) (IE) (IF) (IG) (IH) (II) (IJ) (IK) (IL) (IM) (IN) (IO) (IP) (IQ) (IR) (IS) (IT) (IU) (IV) (IW) (IX) (IY) (IZ) (JA) (JB) (JC) (JD) (JE) (JF) (JG) (JH) (JI) (JJ) (JK) (JL) (JM) (JN) (JO) (JP) (JQ) (JR) (JS) (JT) (JU) (JV) (JW) (JX) (JY) (JZ) (KA) (KB) (KC) (KD) (KE) (KF) (KG) (KH) (KI) (KJ) (KK) (KL) (KM) (KN) (KO) (KP) (KQ) (KR) (KS) (KT) (KU) (KV) (KW) (KX) (KY) (KZ) (LA) (LB) (LC) (LD) (LE) (LF) (LG) (LH) (LI) (LJ) (LK) (LL) (LM) (LN) (LO) (LP) (LQ) (LR) (LS) (LT) (LU) (LV) (LW) (LX) (LY) (LZ) (MA) (MB) (MC) (MD) (ME) (MF) (MG) (MH) (MI) (MJ) (MK) (ML) (MM) (MN) (MO) (MP) (MQ) (MR) (MS) (MT) (MU) (MV) (MW) (MX) (MY) (MZ) (NA) (NB) (NC) (ND) (NE) (NF) (NG) (NH) (NI) (NJ) (NK) (NL) (NM) (NN) (NO) (NP) (NQ) (NR) (NS) (NT) (NU) (NV) (NW) (NX) (NY) (NZ) (OA) (OB) (OC) (OD) (OE) (OF) (OG) (OH) (OI) (OJ) (OK) (OL) (OM) (ON) (OO) (OP) (OQ) (OR) (OS) (OT) (OU) (OV) (OW) (OX) (OY) (OZ) (PA) (PB) (PC) (PD) (PE) (PF) (PG) (PH) (PI) (PJ) (PK) (PL) (PM) (PN) (PO) (PP) (PQ) (PR) (PS) (PT) (PU) (PV) (PW) (PX) (PY) (PZ) (QA) (QB) (QC) (QD) (QE) (QF) (QG) (QH) (QI) (QJ) (QK) (QL) (QM) (QN) (QO) (QP) (QQ) (QR) (QS) (QT) (QU) (QV) (QW) (QX) (QY) (QZ) (RA) (RB) (RC) (RD) (RE) (RF) (RG) (RH) (RI) (RJ) (RK) (RL) (RM) (RN) (RO) (RP) (RQ) (RR) (RS) (RT) (RU) (RV) (RW) (RX) (RY) (RZ) (SA) (SB) (SC) (SD) (SE) (SF) (SG) (SH) (SI) (SJ) (SK) (SL) (SM) (SN) (SO) (SP) (SQ) (SR) (SS) (ST) (SU) (SV) (SW) (SX) (SY) (SZ) (TA) (TB) (TC) (TD) (TE) (TF) (TG) (TH) (TI) (TJ) (TK) (TL) (TM) (TN) (TO) (TP) (TQ) (TR) (TS) (TT) (TU) (TV) (TW) (TX) (TY) (TZ) (UA) (UB) (UC) (UD) (UE) (UF) (UG) (UH) (UI) (UJ) (UK) (UL) (UM) (UN) (UO) (UP) (UQ) (UR) (US) (UT) (UU) (UV) (UW) (UX) (UY) (UZ) (VA) (VB) (VC) (VD) (VE) (VF) (VG) (VH) (VI) (VJ) (VK) (VL) (VM) (VN) (VO) (VP) (VQ) (VR) (VS) (VT) (VU) (VV) (VW) (VX) (VY) (VZ) (WA) (WB) (WC) (WD) (WE) (WF) (WG) (WH) (WI) (WJ) (WK) (WL) (WM) (WN) (WO) (WP) (WQ) (WR) (WS) (WT) (WU) (WV) (WW) (WX) (WY) (WZ) (XA) (XB) (XC) (XD) (XE) (XF) (XG) (XH) (XI) (XJ) (XK) (XL) (XM) (XN) (XO) (XP) (XQ) (XR) (XS) (XT) (XU) (XV) (XW) (XX) (XY) (XZ) (YA) (YB) (YC) (YD) (YE) (YF) (YG) (YH) (YI) (YJ) (YK) (YL) (YM) (YN) (YO) (YP) (YQ) (YR) (YS) (YT) (YU) (YV) (YW) (YX) (YZ) (ZA) (ZB) (ZC) (ZD) (ZE) (ZF) (ZG) (ZH) (ZI) (ZJ) (ZK) (ZL) (ZM) (ZN) (ZO) (ZP) (ZQ) (ZR) (ZS) (ZT) (ZU) (ZV) (ZW) (ZX) (ZY) (ZZ)

BETAC -5.000 STAB-C 1.000 RUO-C .000

REFERENCE INFORMATION
SREF 5500.0000 SQ.FT.
LREF 327.7800 IN.
BREF 2348.0400 IN.
XMRP 1339.9000 IN.
YMRP .0000 IN.
ZMRP 190.7500 IN.
SCALE .0125

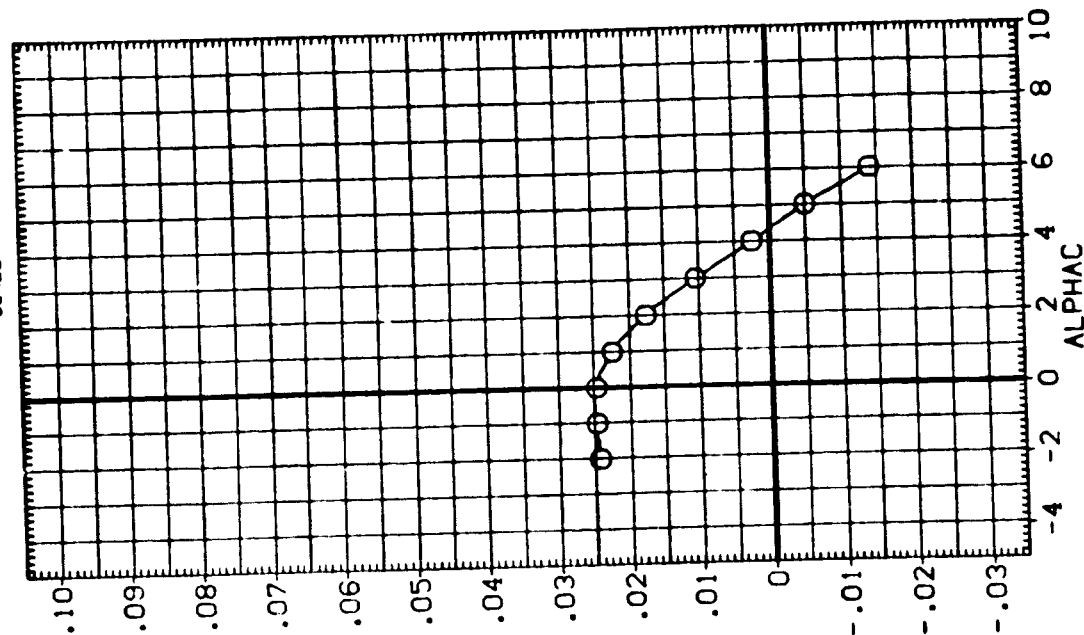
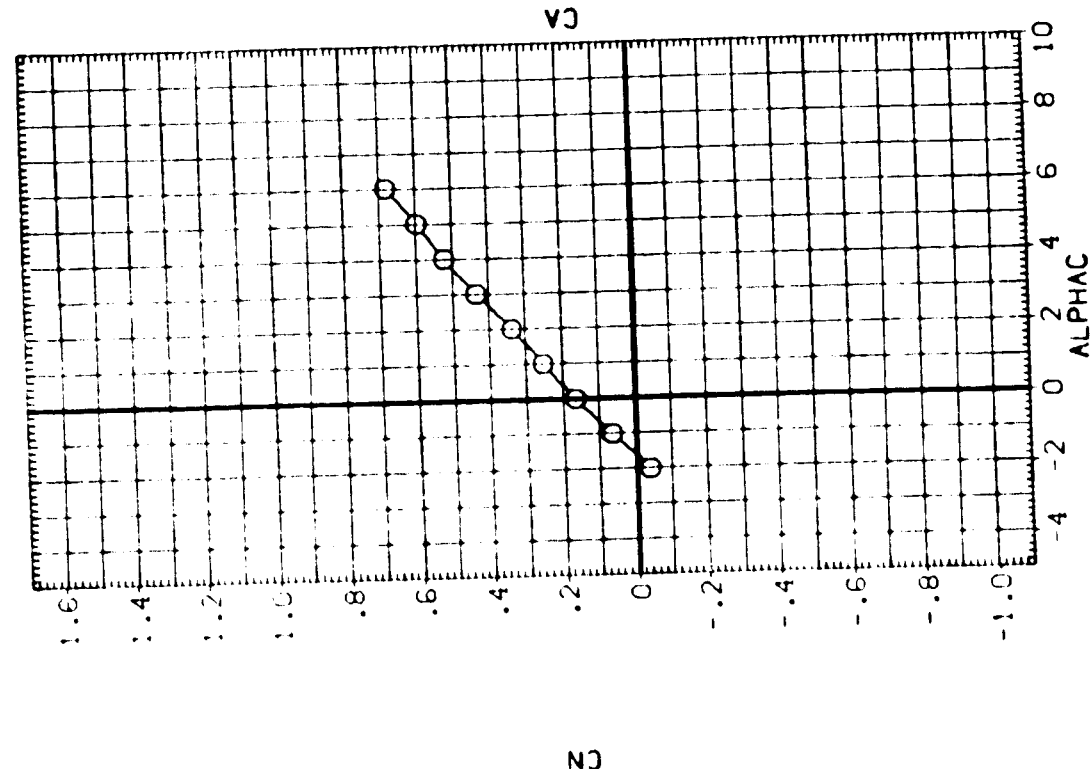


FIG.7 CARRIER ISOLATED AERO CHARACTERISTICS

(A)MACH = .60

BETAC	STAB-C	RUD-C
-5.000	1.000	.000

REFERENCE INFORMATION	
SREF	5500.0000 SQ.FT.
LREF	327.7800 IN.
BREF	2348.0400 IN.
XHRP	1339.9000 IN. XC
YHRP	1000.0000 IN. YC
ZHRP	190.7500 IN. ZC
SCALE	.0125

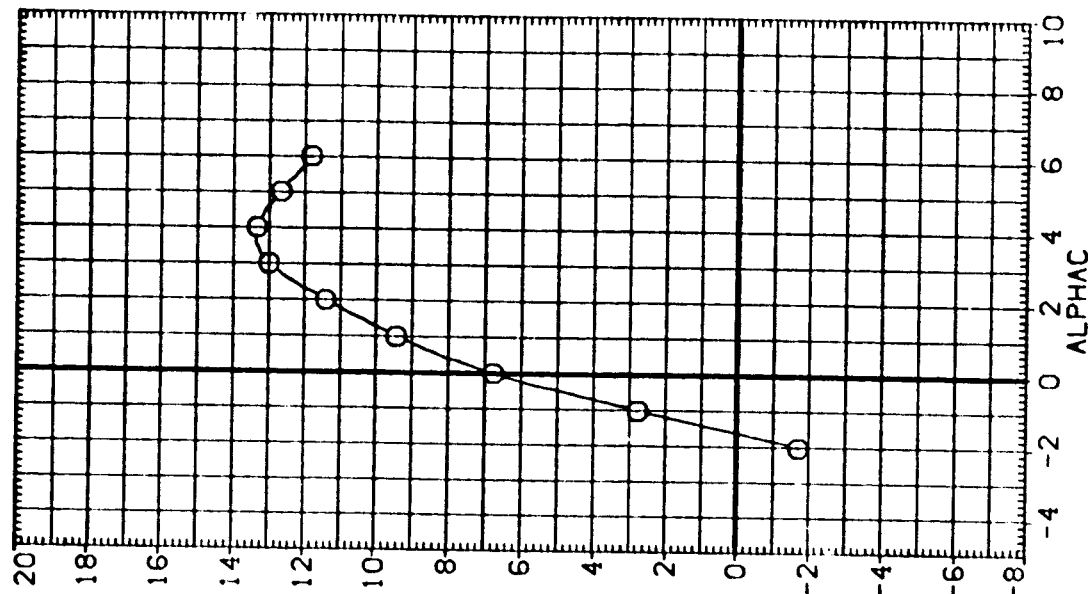
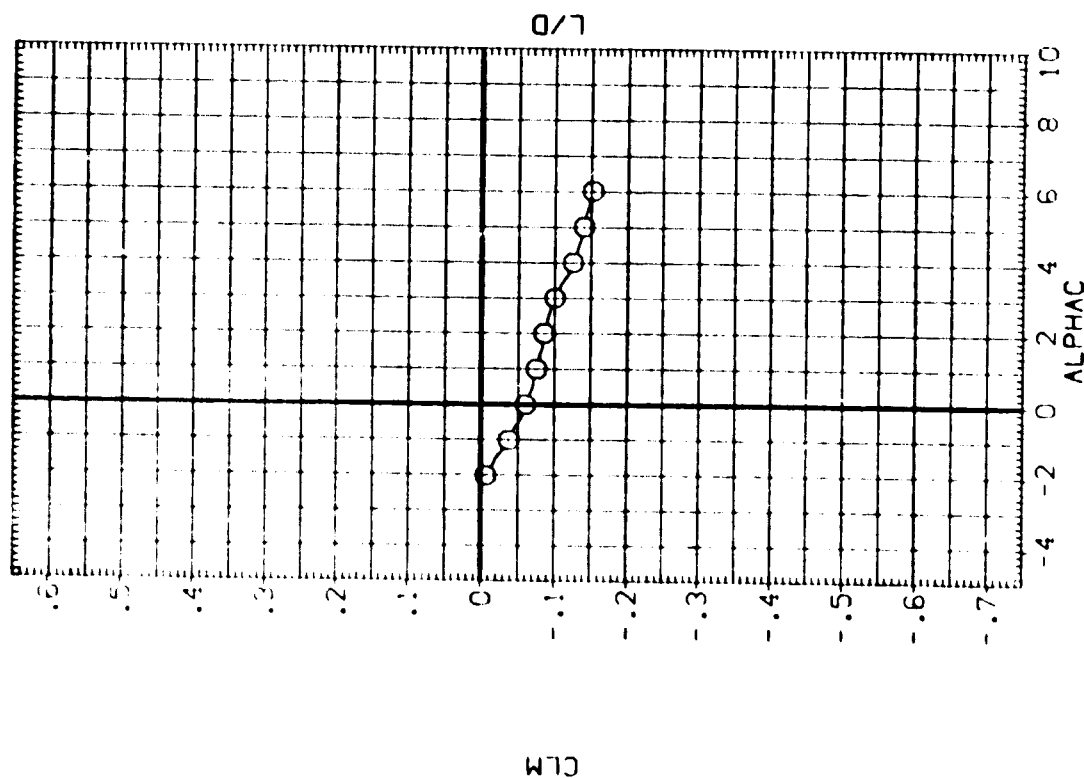


FIG. 7 CARRIER ISOLATED AERO CHARACTERISTICS

H
C
A
C
A
C

99.

DATA SET 510000
(984911) ☐ ARC14-060-1 CA23 747/3 (CARRIER ISOLATED)

BETAC -5.000 STAB-C 1.000 RUO-C .000

REFERENCE INFORMATION
SREF 5500.0000 50.FT.
LREF 327.7800 IN.
BREF 2346.0400 IN. KC
XMRP 1339.9000 IN. VC
YMRP .0000 IN. VC
ZMRP 190.7500 IN. ZC
SCALE .0125

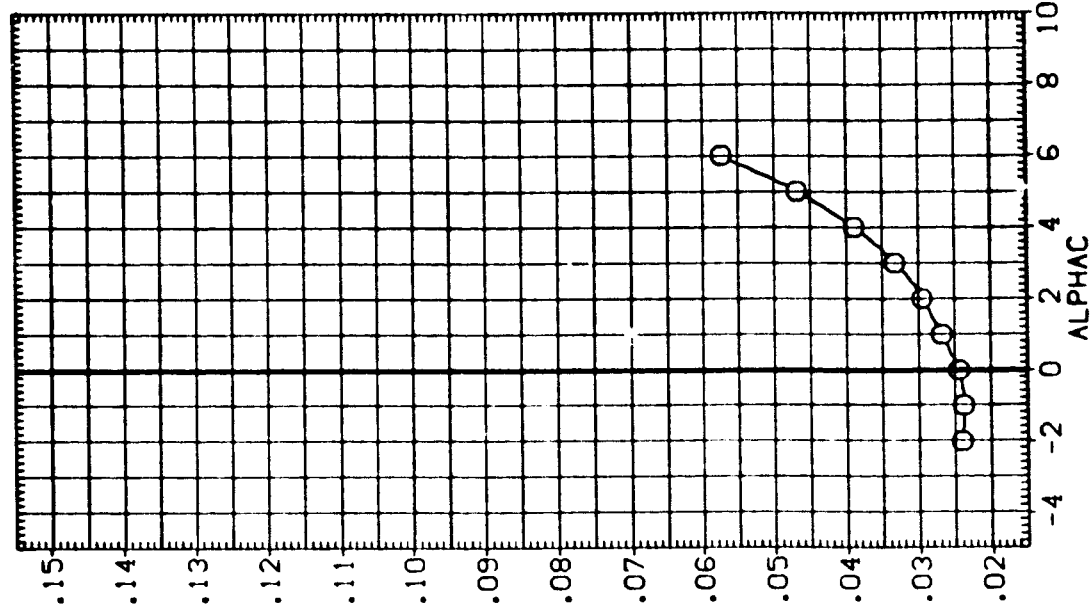
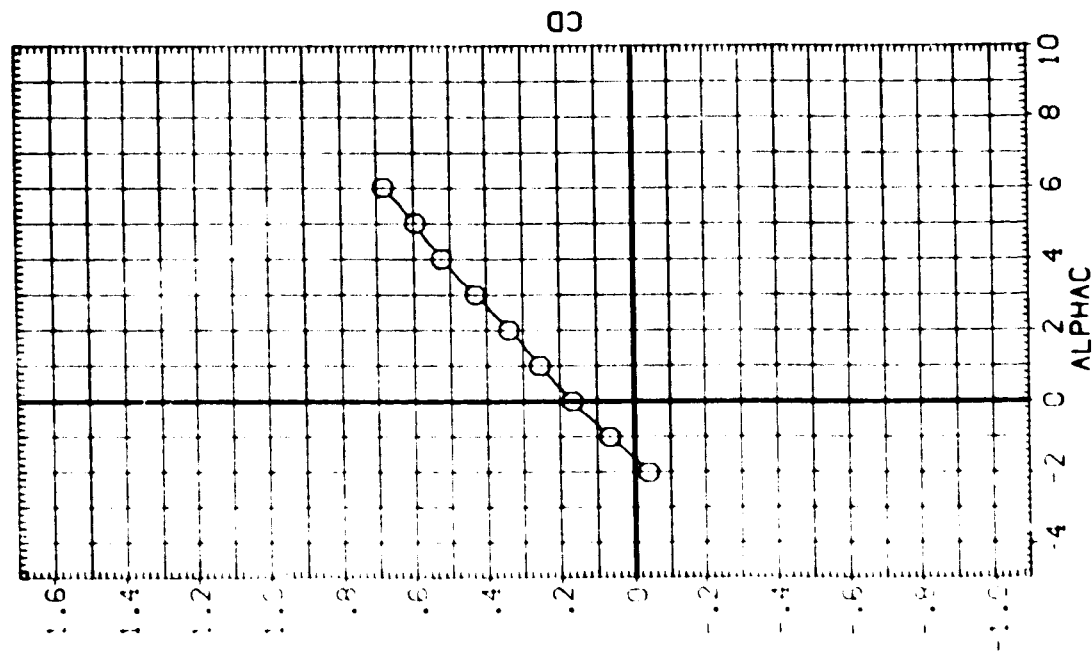
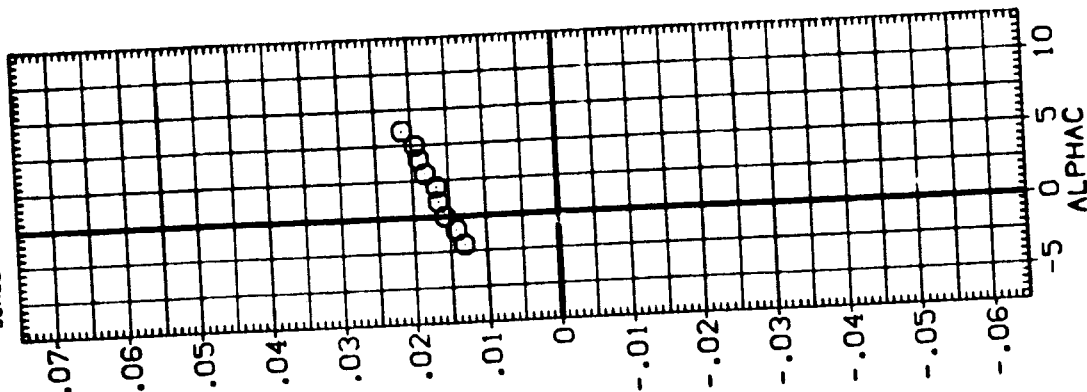
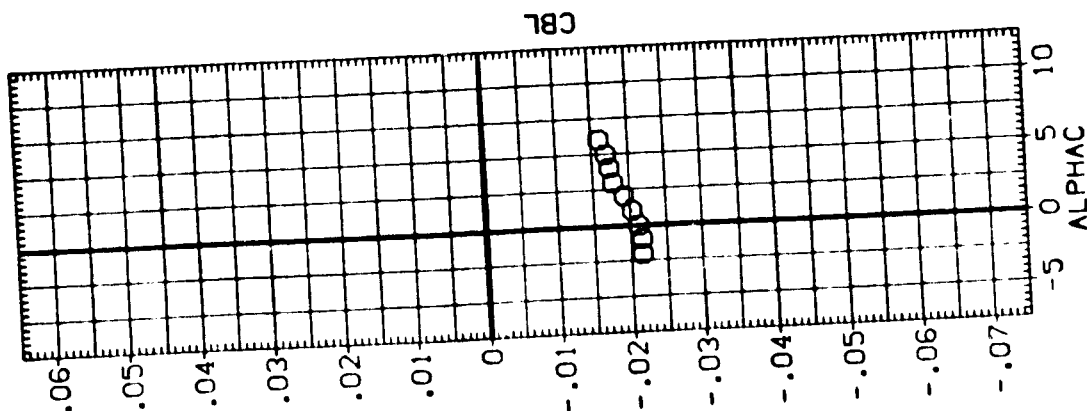


FIG.7 CARRIER ISOLATED AERO CHARACTERISTICS

CADMACH = .60

[illegible]

REFERENCE	50. FT.
SREF	5560.0000
LREF	327.7800
BREF	2348.0400
XMRP	1329.9000
YMRP	.0000
ZMRP	190.7560
SCALE	.0125



ALPHA CARRIER ISOLATED AERO CHARACTERISTICS

11

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(B) 9612) () APC14-090-1 CA23 747/3 (-V9.1)(CARRIER (ISOLATED))

BETAC STAB-C
-5.000 1.000

REFERENCE INFORMATION
SREF 5500.0000 SQ.FT.
LREF 327.7800 IN.
BREF 2348.0400 IN.
XMRP 1339.9000 IN. XC
YMRP .0000 IN. YC
ZMRP 190.7500 IN. ZC
SCALE .0125

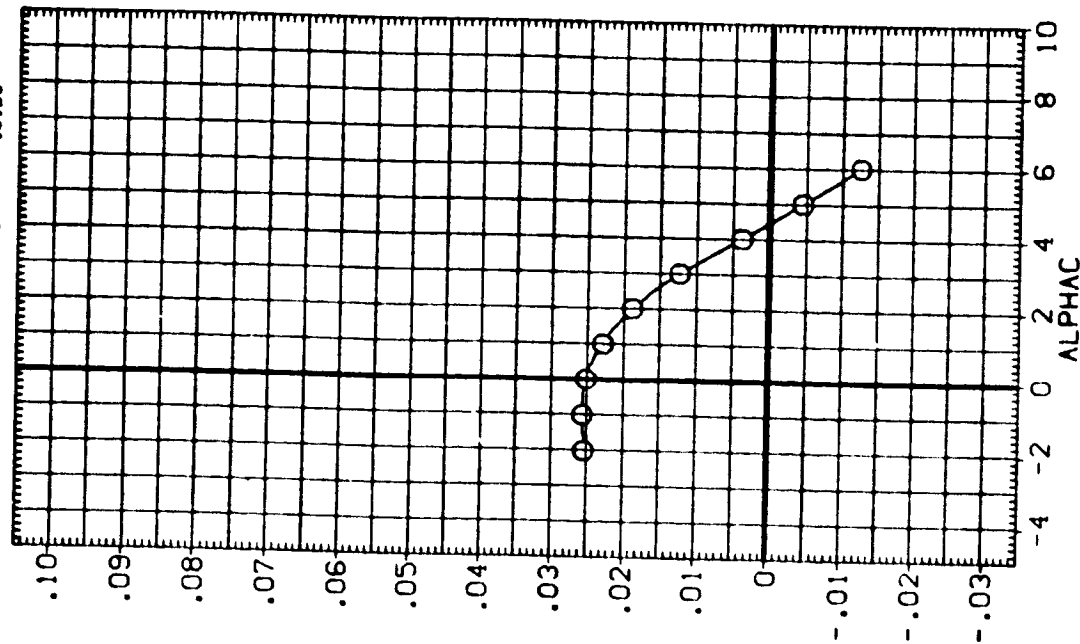
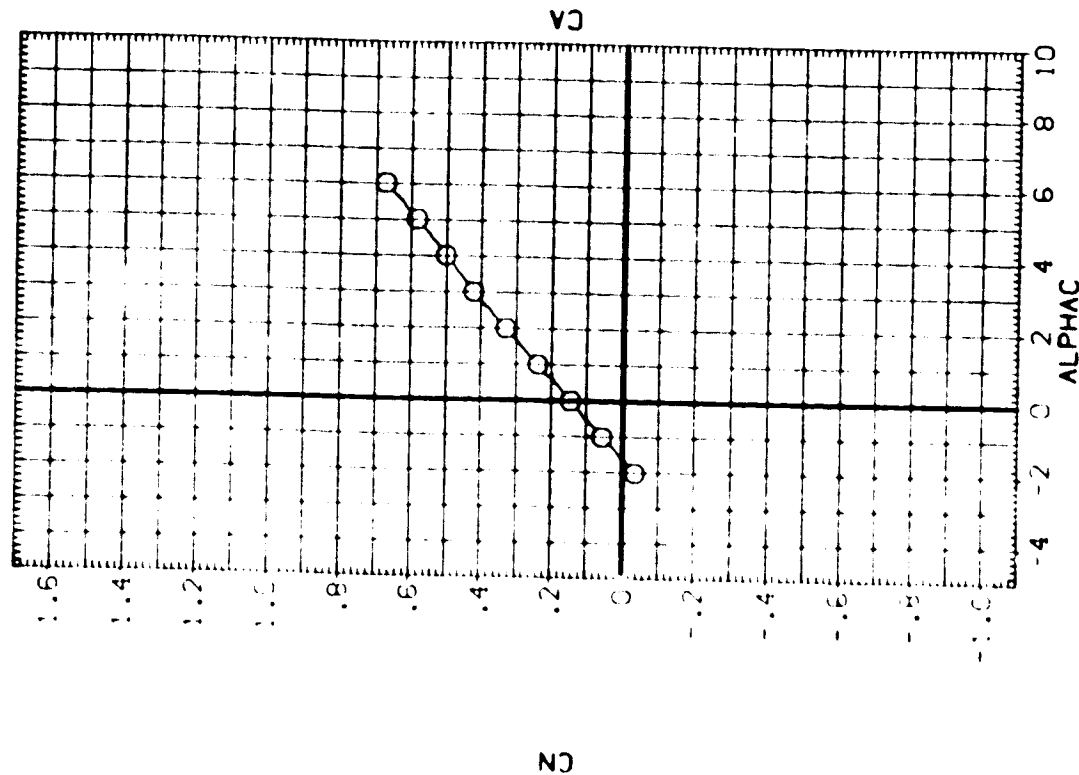


FIG.7 CARRIER ISOLATED AERO CHARACTERISTICS
(A)MACH = .60

DATA SET SYMBOL
18F98121

CONFIGURATION DESCRIPTION
ARC14-0801 CA23 747/3 (-V9.1)(CARRIER ISOLATED)

STAB-C
1.000

BETAC
-5.000

REFERENCE INFORMATION

SREF	5500.0000	SQ.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN.
YMRP	.0000	IN.
ZMRP	190.7500	IN.
SCALE	.0125	

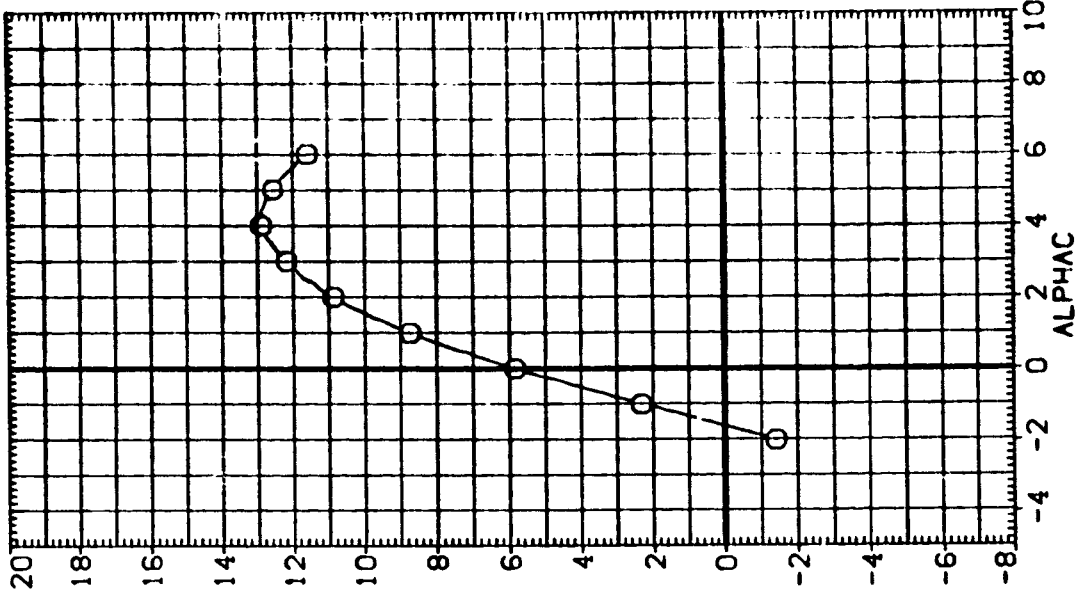
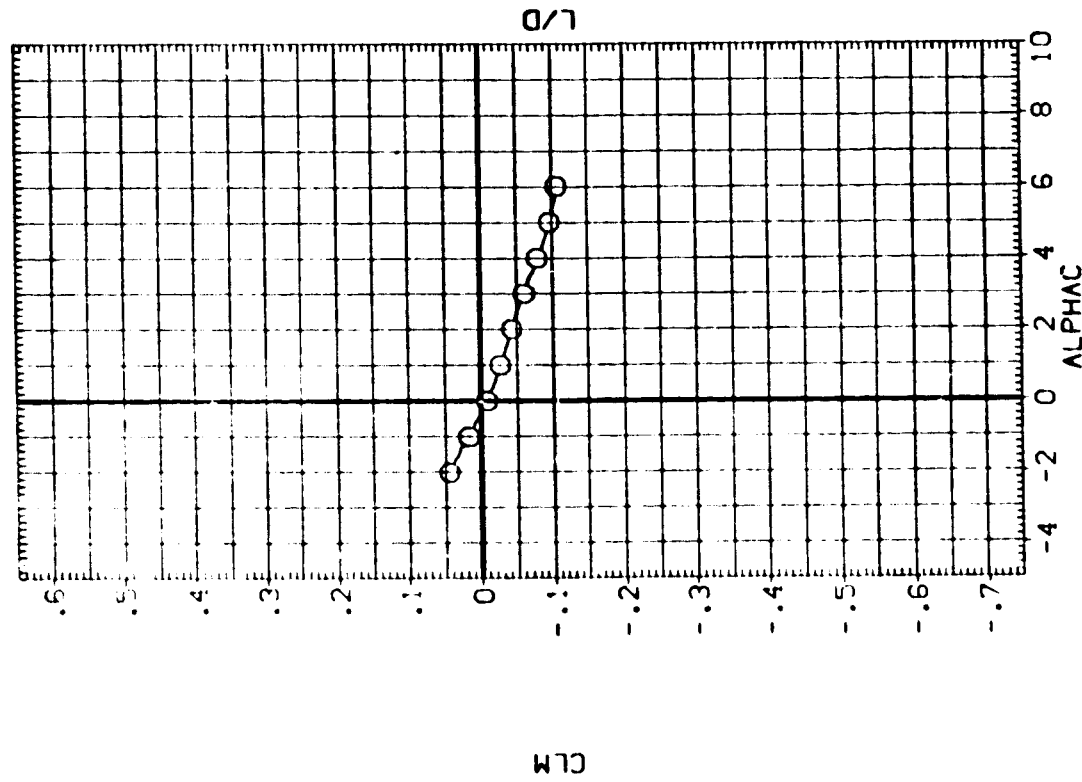


FIG.7 CARRIER ISOLATED AERO CHARACTERISTICS

(A)MACH = .60

REFERENCE INFORMATION
 SRI:F 5500.0000 SQ.FT.
 LREF 327.7800 IN.
 BREF 2348.0400 IN.
 XMRP 1339.8000 IN.
 YMRP .0000 IN.
 ZMRP 190.7500 IN.
 SCALE .0125

BETAC STAB-C
 -5.000 1.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (B63612) AKC14 CBJ-1 CA23 747/3 (-V9.1)(CARRIER ISOLATED)

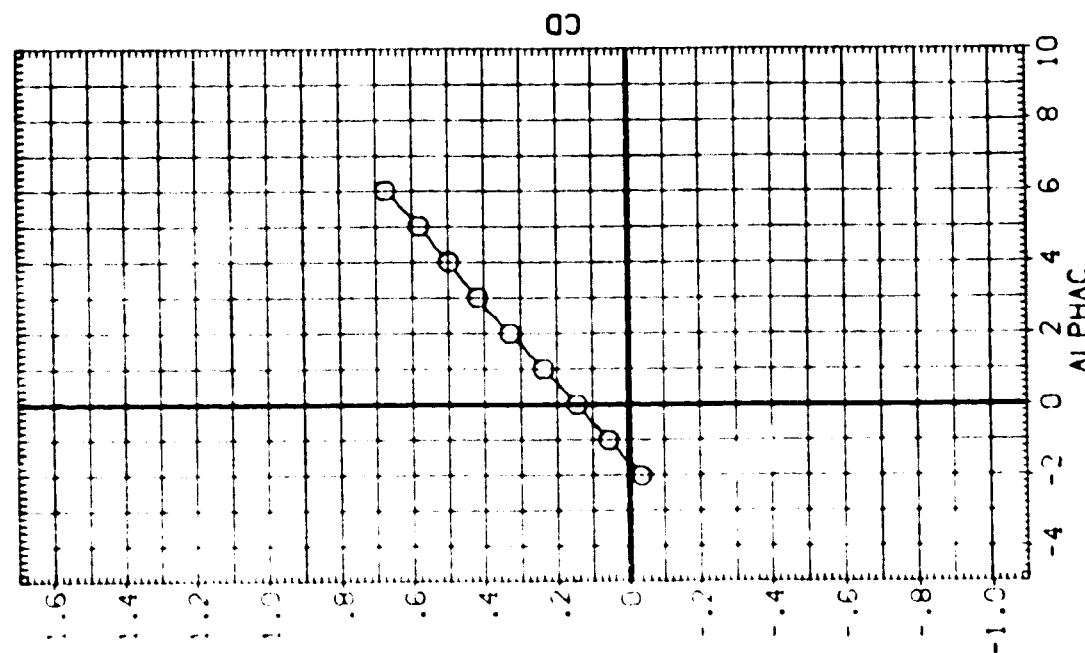
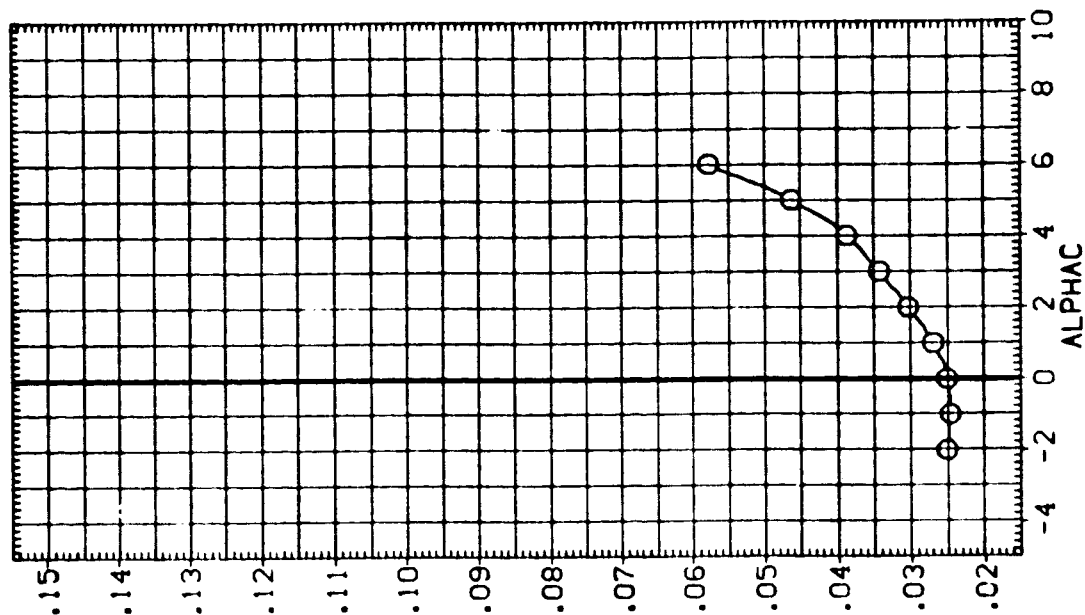


FIG.7 CARRIER ISOLATED AERO CHARACTERISTICS

(A)MACH = .60

REPRODUCIBILITY OF THE
 ORIGINAL PAGE IS POOR

BETAC	STAB-C
-5.000	1.000

REFERENCE INFORMATION	
SREF	5500.0000
LREF	327.7800
BREF	328.0400
XMRP	1339.9000
YMRP	.0000
ZMRP	190.7500
SCALE	.0125

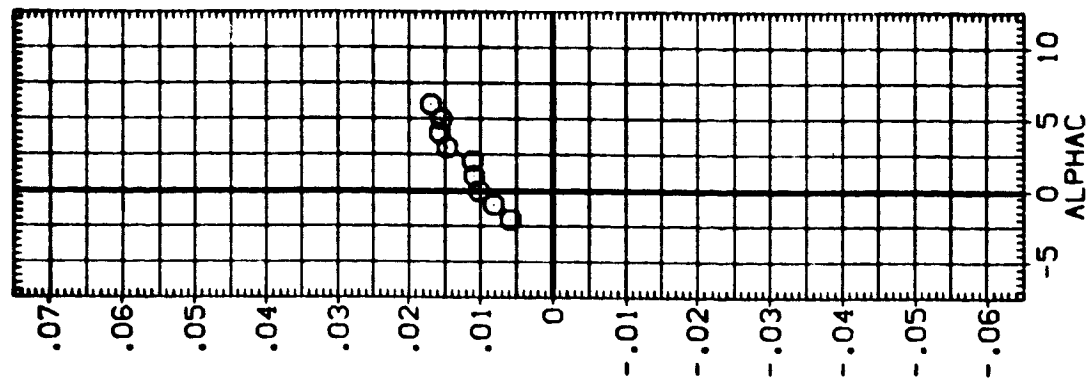
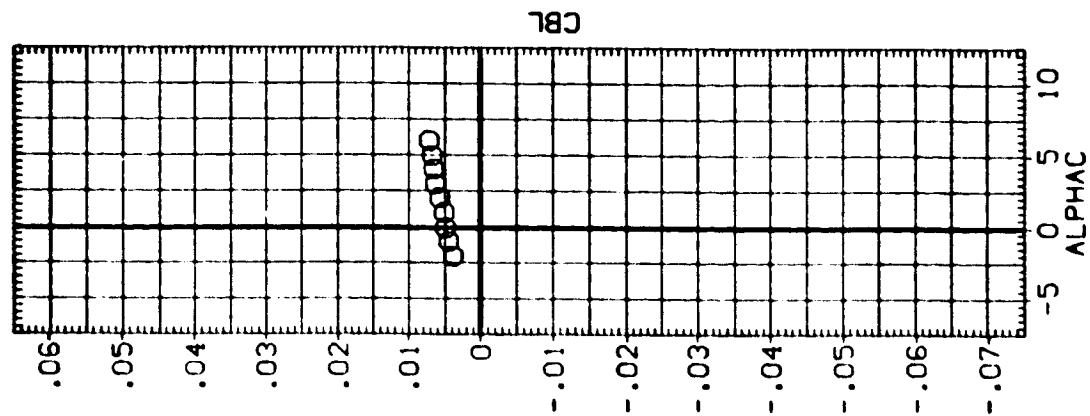
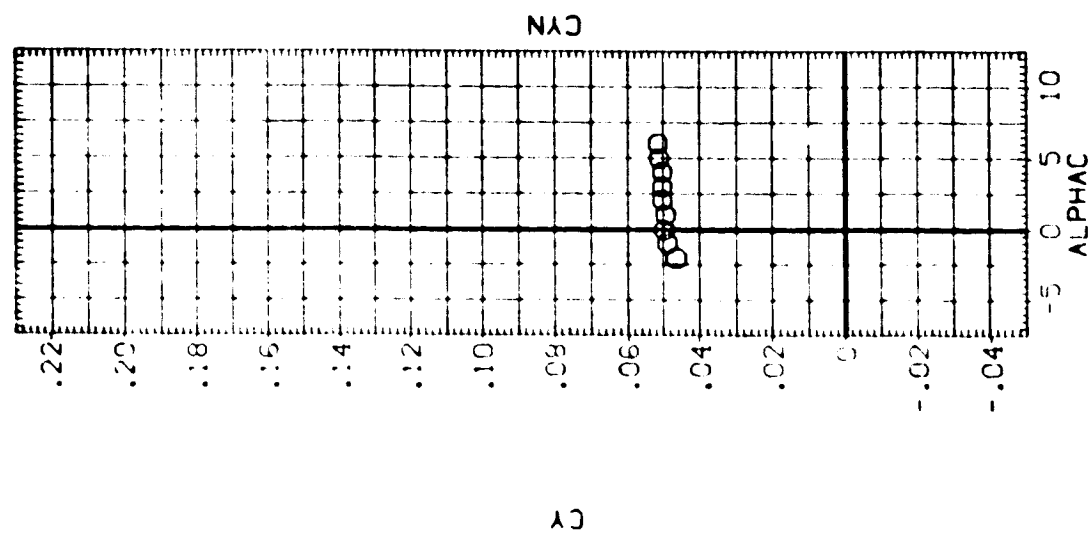


FIG. 7 CARRIER ISOLATED AERO CHARACTERISTICS

$$C(MACH) = .60$$



DATA SET SYMBOL \odot CONFIGURATION DESCRIPTION
 BE 46131 ARC 14-080-1 CA23 747/3 (CARRIER ISOLATED)

BETAC .000 STAB-C 1.000 RUO-C .000

REFERENCE INFORMATION
 SREF 5500.0000 SQ.FT.
 LREF 327.7800 IN.
 BREF 2348.0400 IN.
 XMRP 1339.9000 IN. XC
 YMRP .0000 IN. YC
 ZMRP 190.7500 IN. ZC
 SCALE .0125

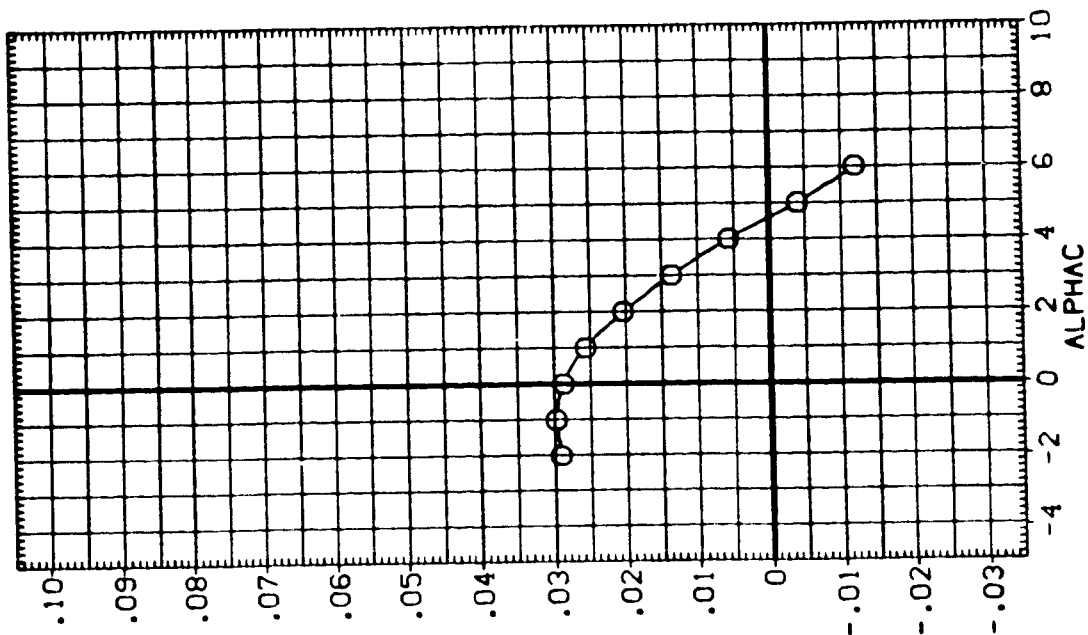
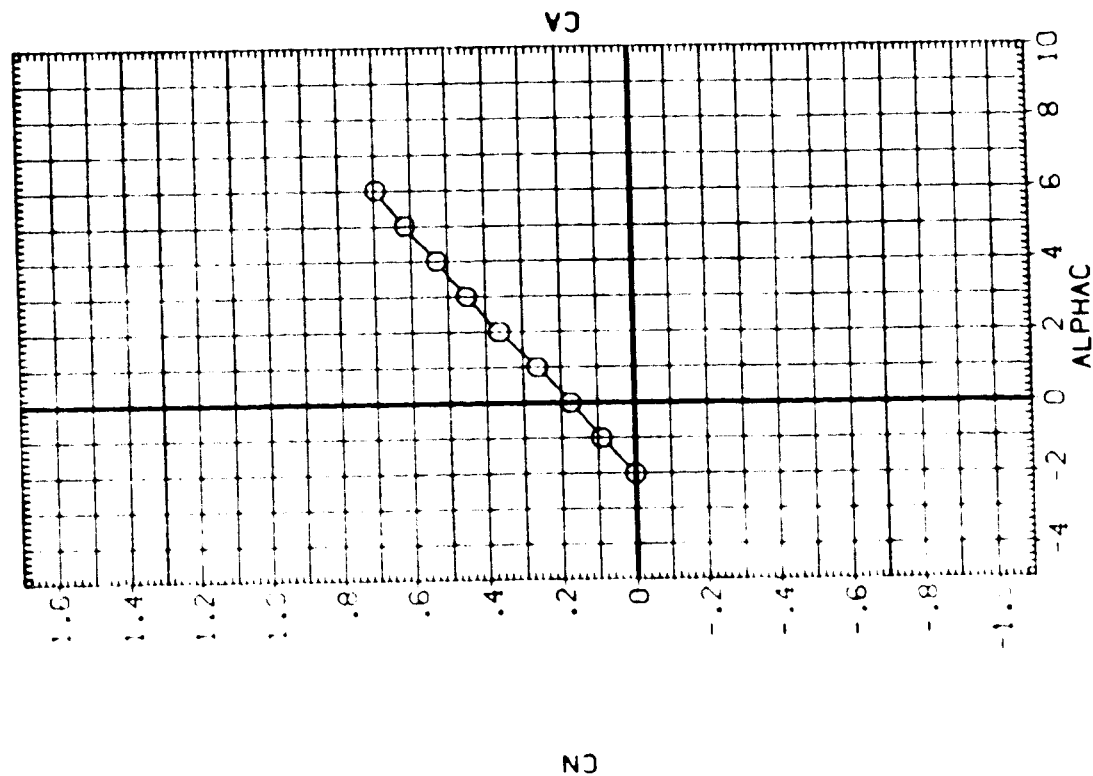


FIG.7 CARRIER ISOLATED AERO CHARACTERISTICS

(A) MACH = .60

DATA SET SYM. CONFIGURATION DESCRIPTION
 184513 014-080-1 CA20 247/3 (CARRIER ISOLATED)

BETAC .000 STAB-C 1.000 RUD-C .000

REFERENCE INFORMATION
 SREF 5500.0000 SQ.FT.
 LREF 377.7500 IN.
 BREF 2348.0400 IN.
 YMRP 1339.9000 IN. YC
 ZMRP .0000 IN. ZC
 SCALE 190.7500 IN. ZC
 .0125

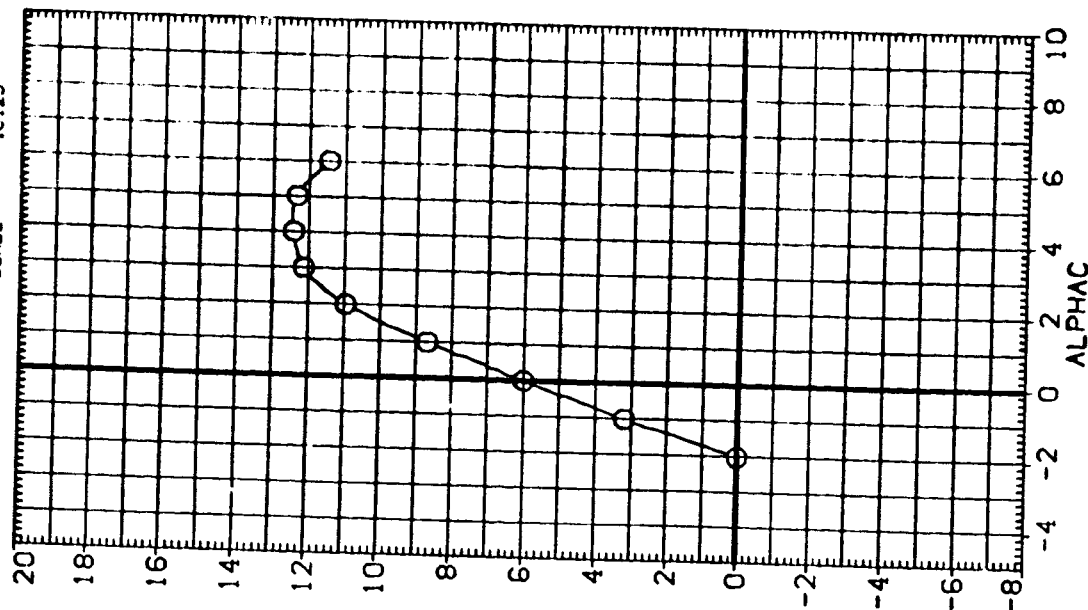
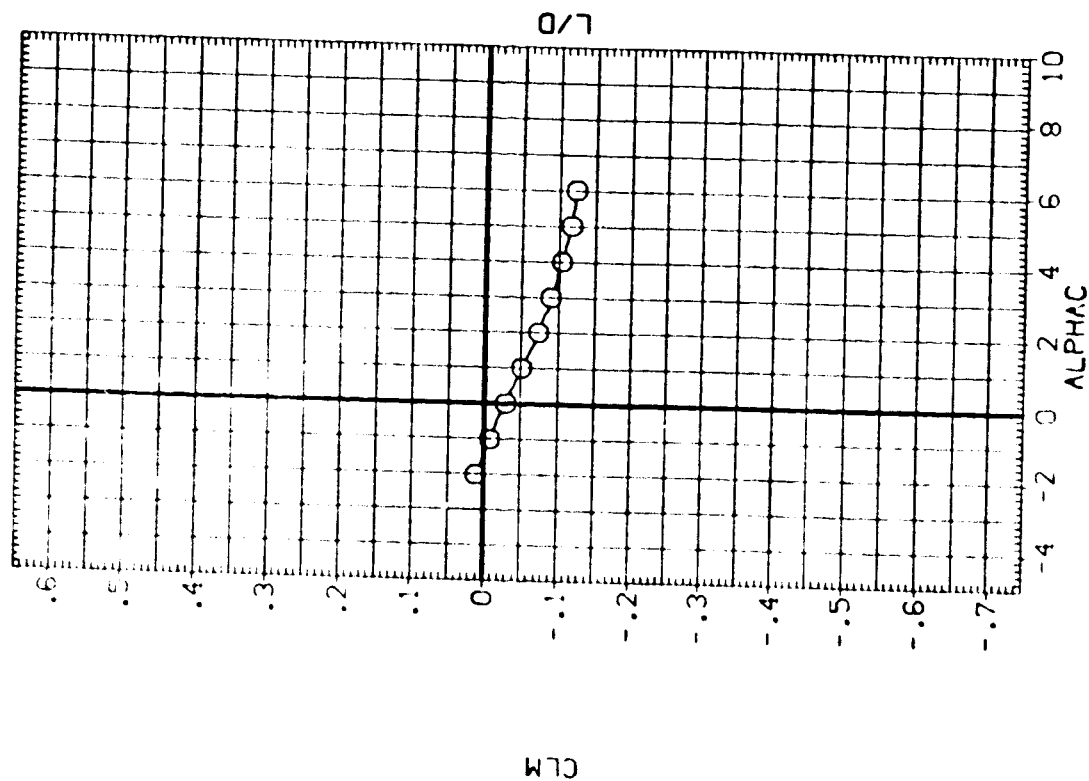


FIG.7 CARRIER ISOLATED AERO CHARACTERISTICS
 (A)MACH = .60

DATA SET SYMBOL (BE9613) \odot ARC14-060-1 CA23 747/3 (CARRIER ISOLATED)

REFERENCE INFORMATION

	5500.0000	SO.FT.
SREF	327.7800	IN.
LREF	2348.0400	IN.
BREF	1339.9000	IN.
YMRP	.0000	IN.
ZMRP	190.7500	IN.
SCALE	.0125	IN.

BETAC .000

STAB-C 1.000

RUD-C .000

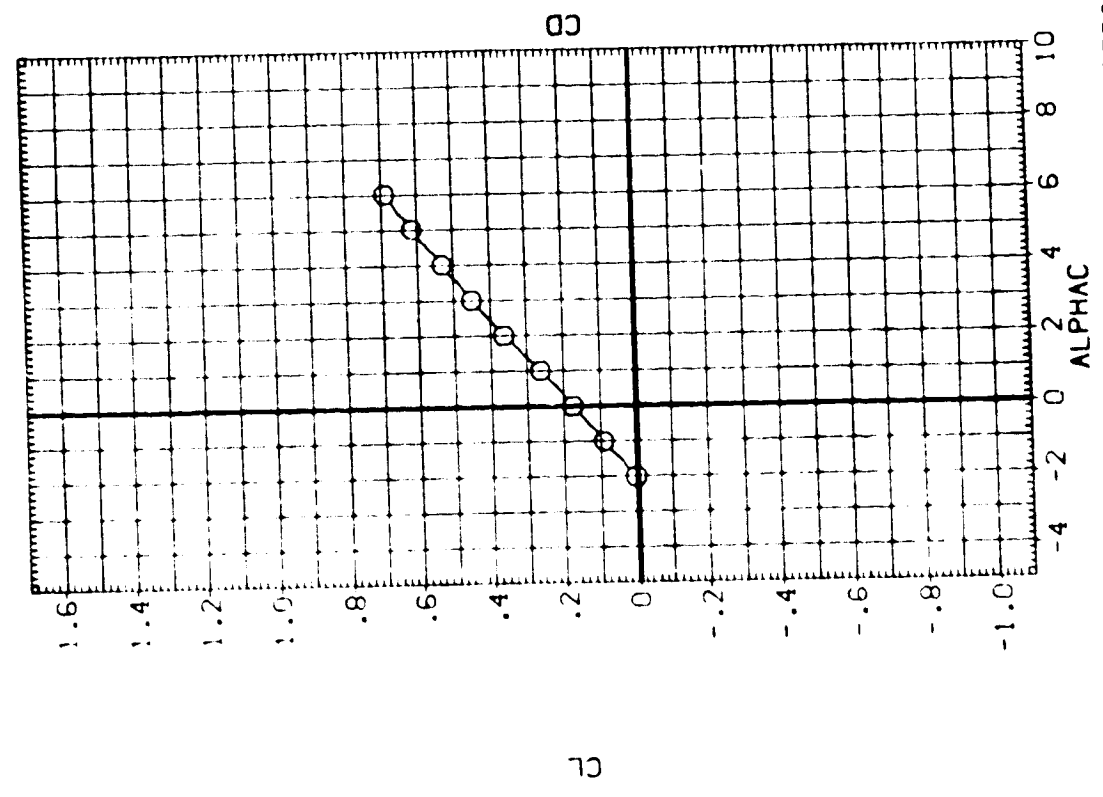
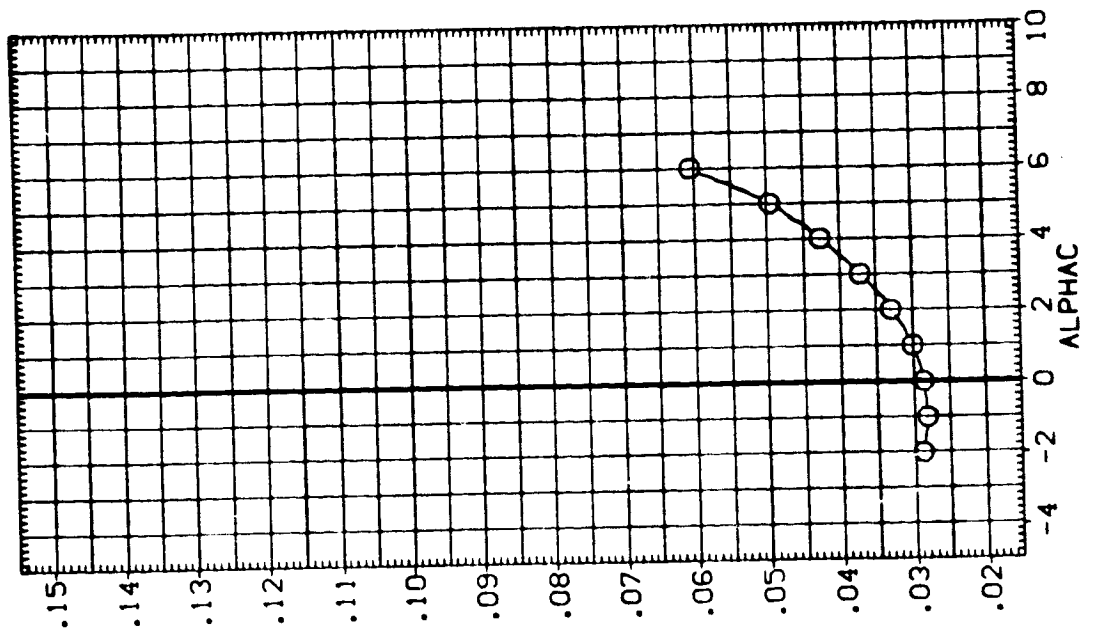


FIG.7 CARRIER ISOLATED AERO CHARACTERISTICS

(A) MACH .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (BE9913) ○ ARC14-060-1 CA23 747/3 (CARRIER ISOLATED)

BETAC STAB-C RUO-C
 .000 1.000 .000

REFERENCE INFORMATION
 SREF 5500.0000 50.FT.
 LREF 327.7800 IN.
 BREF 2348.0400 IN.
 XMRP 1339.9000 IN. XC
 YMRP .0000 IN. YC
 ZMRP 190.7500 IN. ZC
 SCALE .0125

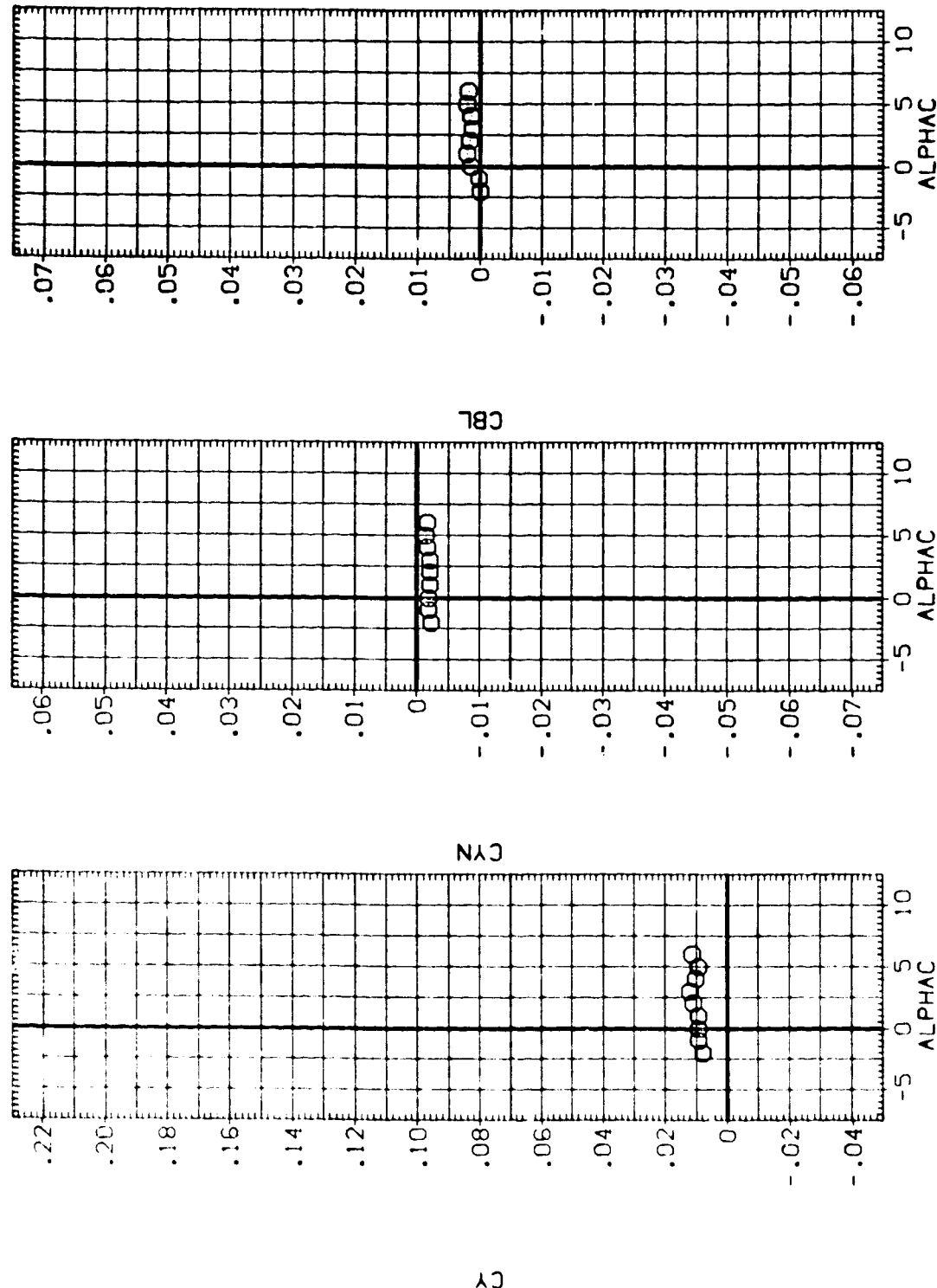


FIG.7 CARRIER ISOLATED AERO CHARACTERISTICS

(A)MACH = .60



DATA SET SYMBOL: 5E9B14) \odot CONFIGURATION DESCRIPTION: AWC14-080-1 EA23 747/3 (CARRIER ISOLATED)

BETAC: .000 STAB-C: -1.000 RUO-C: .000

REFERENCE INFORMATION:
 SREF: 5500.0000 SC.F.T.
 LREF: 327.7800 IN.
 BREF: 2348.0400 IN.
 XMRP: 1339.9000 IN.
 YMRP: 190.7500 IN.
 ZMRP: 190.7500 IN.
 SCALE: .0125

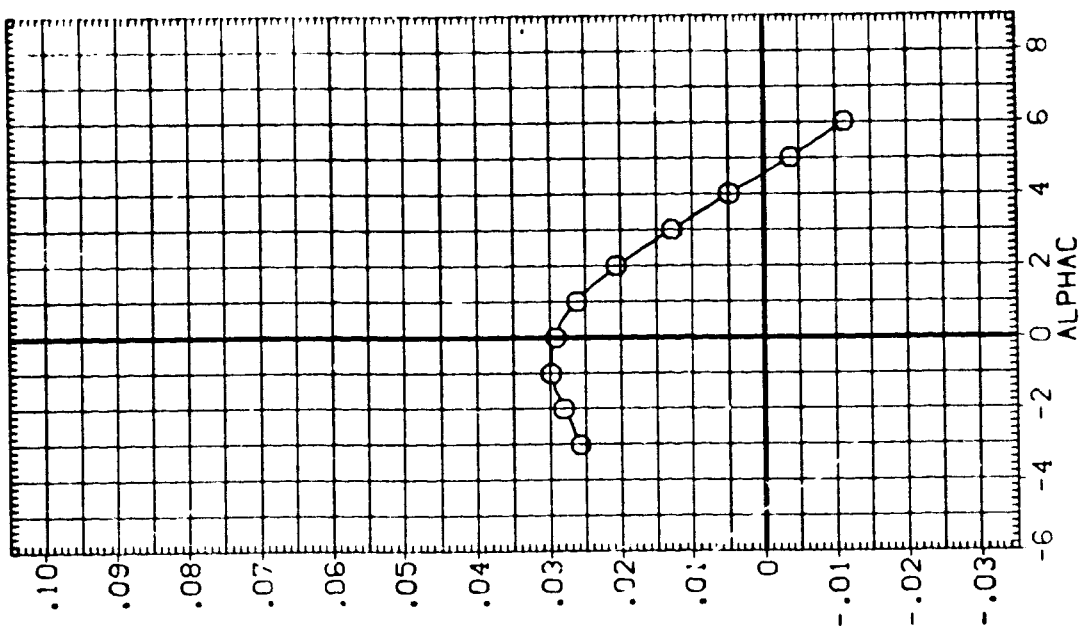
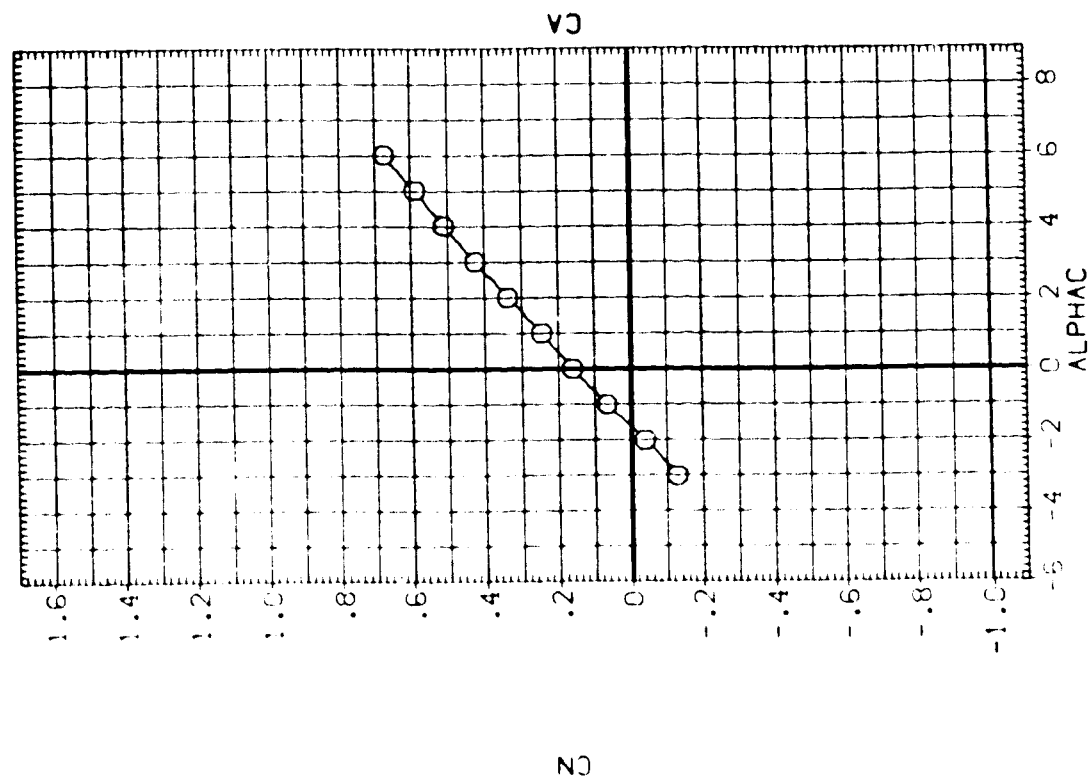


FIG.7 CARRIER ISOLATED AERO CHARACTERISTICS

CARRIER - .60

DATA SE: SYMBOL ☐ CONFIGURATION DESCRIPTION
(BE9814) ARC14-080-1 CA23 747/3 (CARRIER ISOLATED)

BETAC STAB-C RUO-C
.000 -1.000 .000

REFERENCE INFORMATION
SREF 5500.0000 SQ.FT.
LREF 327.7800 IN.
BREF 2348.0400 IN.
XMRP 1339.9000 IN.
YMRP 190.7500 IN.
ZMRP 190.7500 IN.
SCALE .0125

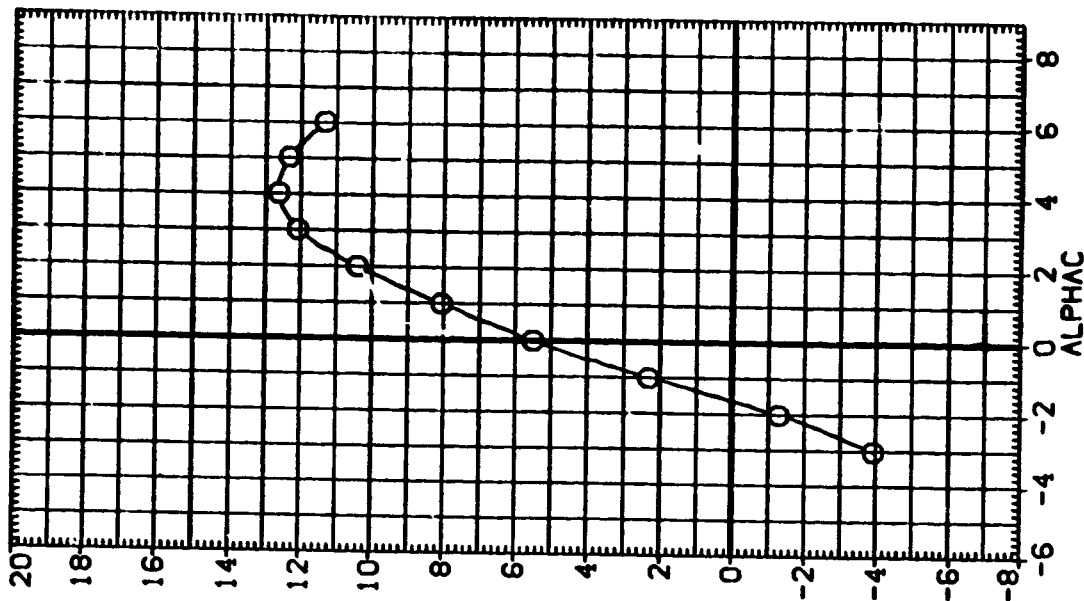
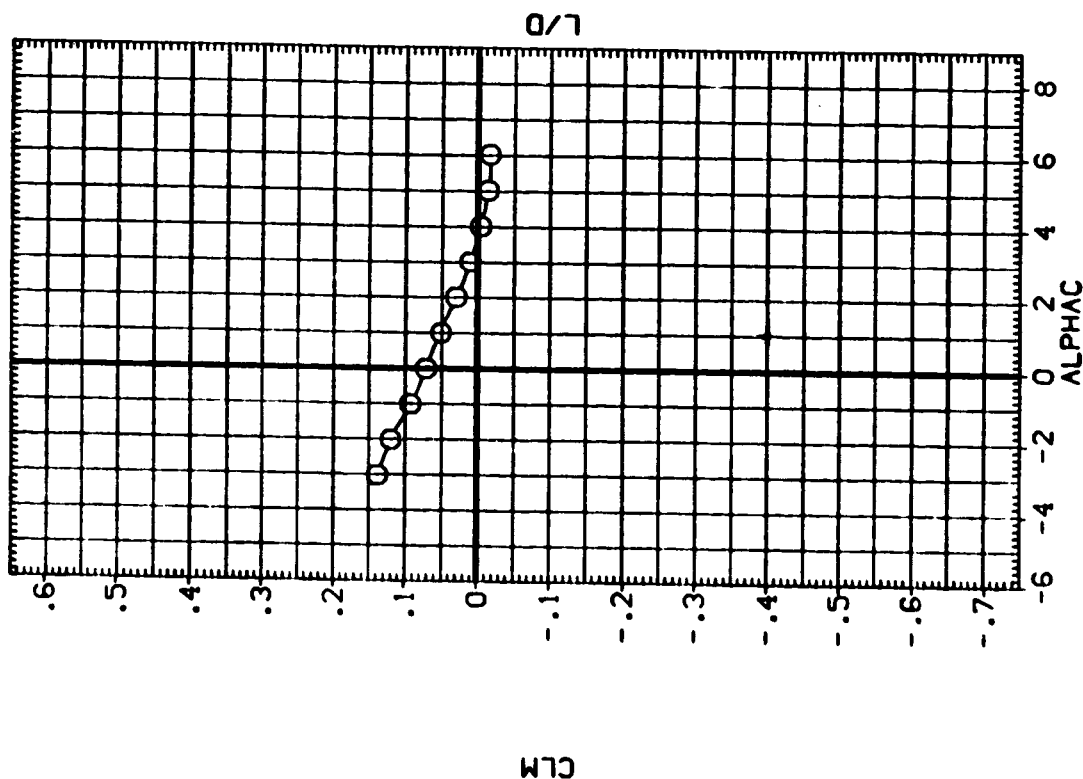


FIG.7 CARRIER ISOLATED AERO CHARACTERISTICS

(A)MACH = .60

DATA SET SYMBOL (8E9814) ○

CONFIGURATION DESCRIPTION ARC14-080-1 CA23 747/3 (CARRIER ISOLATED)

REFERENCE INFORMATION

SRF	5500.0000	90.FT.
LRP	327.7800	IN.
BRP	2348.0400	IN.
YMRP	1339.8000	IN.
ZMRP	190.7500	IN.
SCALE	.0125	

BETAC .000

STAB-C -1.000

RUD-C .000

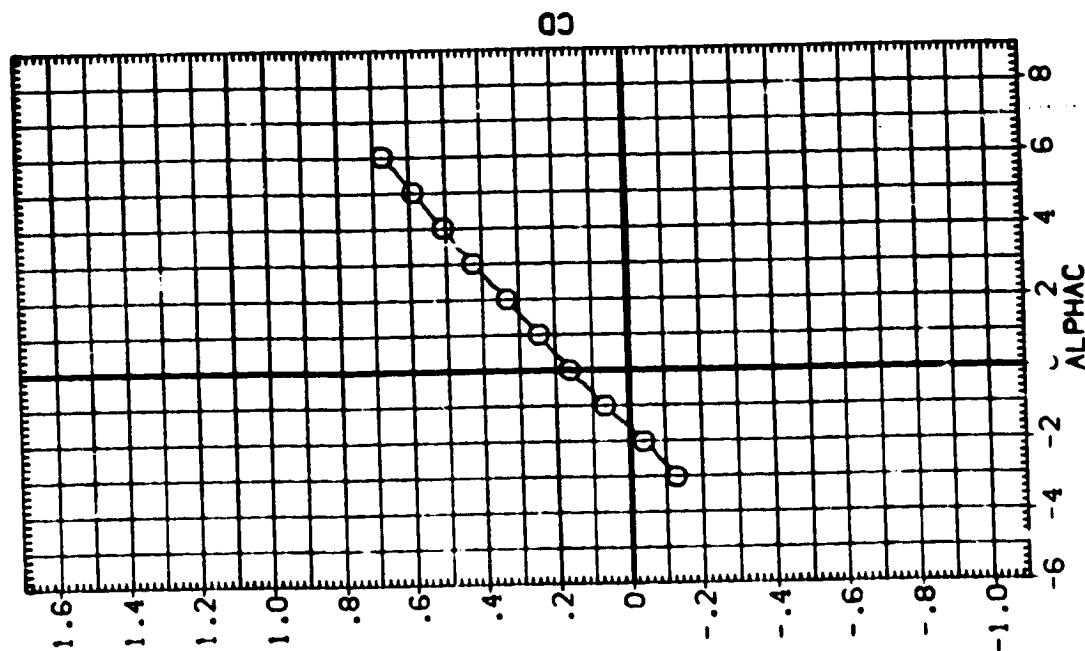
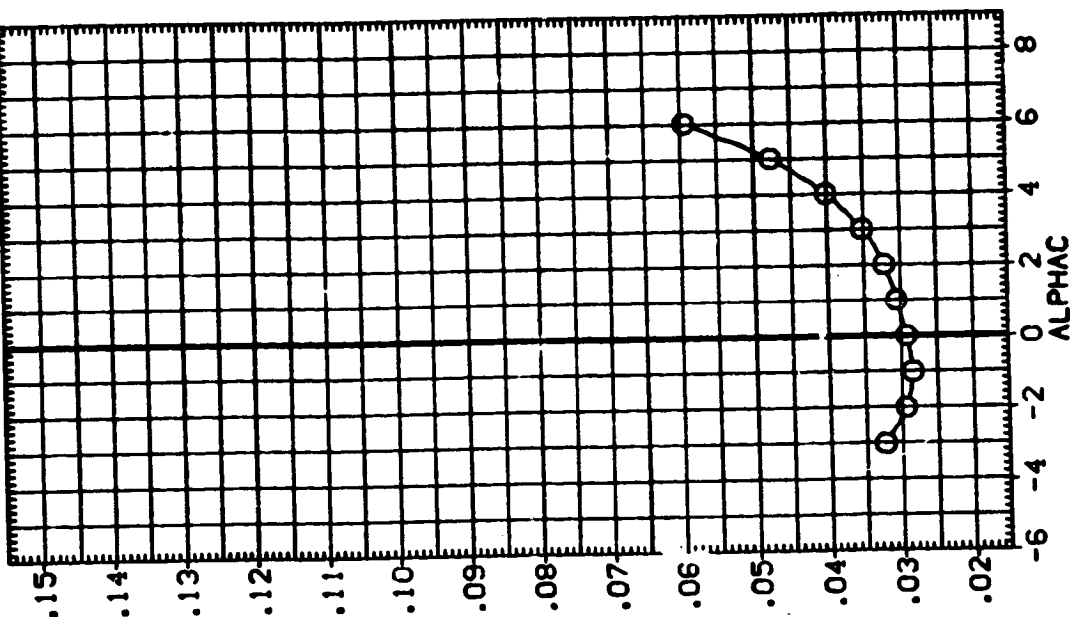


FIG.7 CARRIER ISOLATED AERO CHARACTERISTICS

(A)MACH = .60

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

DATA SET SYMBOL (9E98:4) ○ ARC14-080-1 CA23 747/3 (CARRIER ISOLATED)

BETAC STAB-C RUD-C
.000 -1.000 .000

REFERENCE INFORMATION
SREF 5500.0000 SQ.FT.
LREF 327.7800 IN.
BREF 2348.0400 IN.
XMRP 1308.9000 IN. MC
YMRP .0000 IN. VC
ZMRP 190.7500 IN. ZC
SCALE .0125

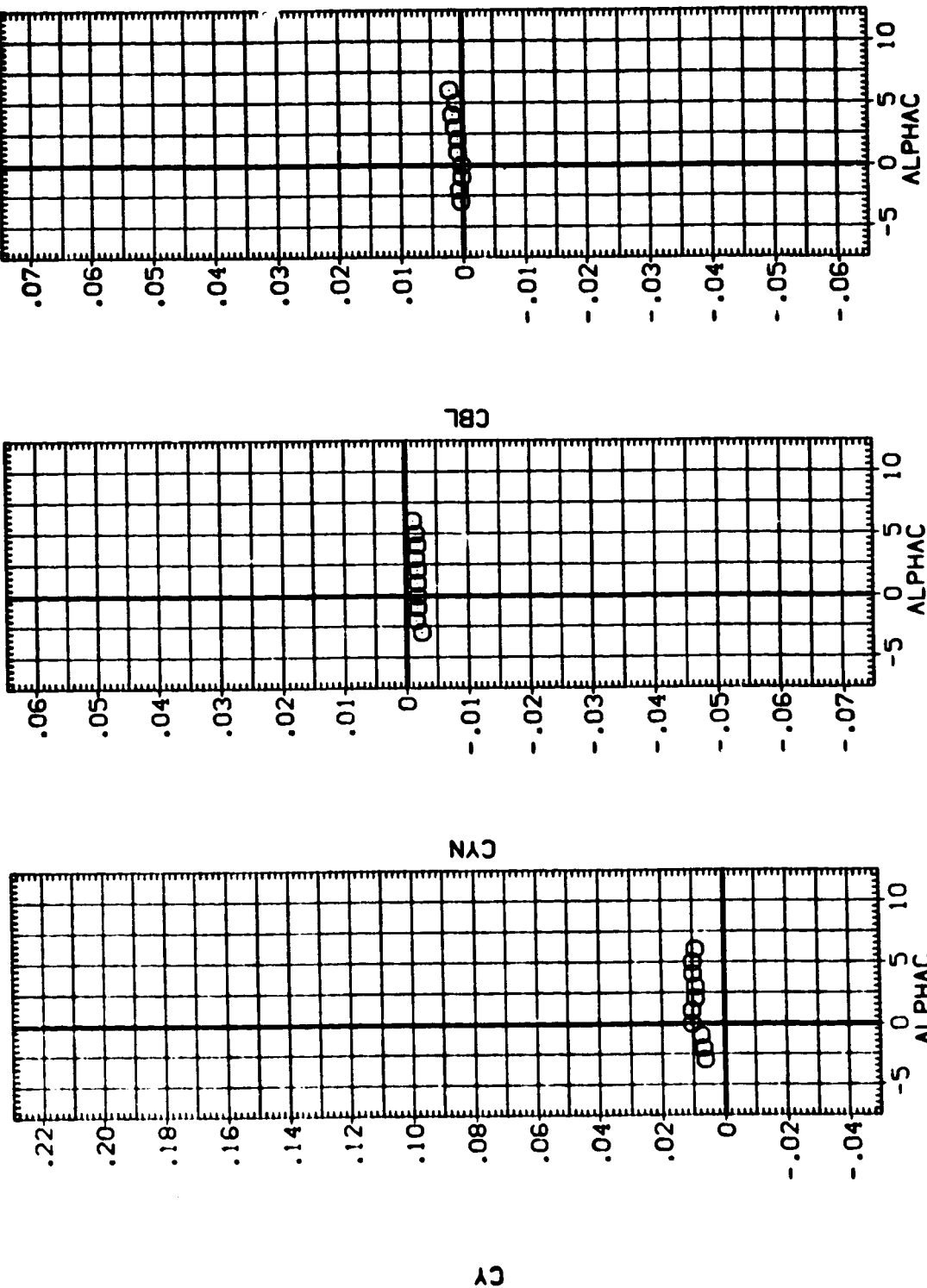


FIG.7 CARRIER ISOLATED AERO CHARACTERISTICS

(A)MACH = .60



DATA SET SYMBOL (BES915) \bigcirc ARC14-080-1 C23 747/3 (-HIS) (CARRIER ISOLATED)
 REFERENCE INFORMATION
 SPEC 5900.0000 90.171.
 LREF 377.7800 IN.
 BREF 2348.0400 IN.
 XTRP 1339.8000 IN.
 YTRP .0000 IN.
 ZTRP 190.7500 IN.
 SCALE .0125

BETAC .000
 RUO-C .000

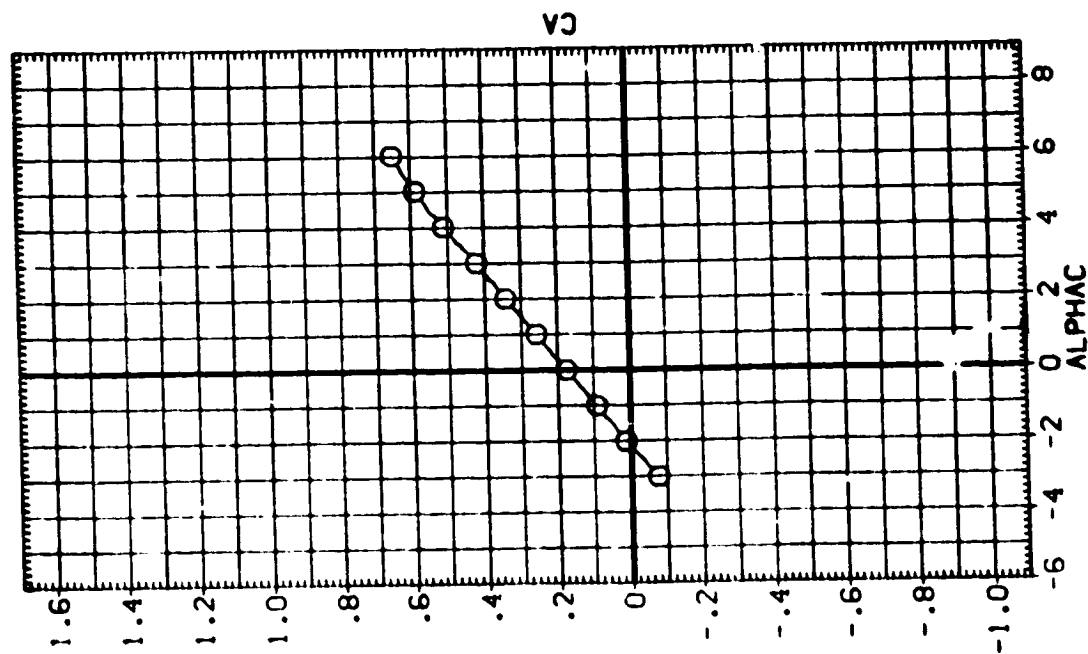
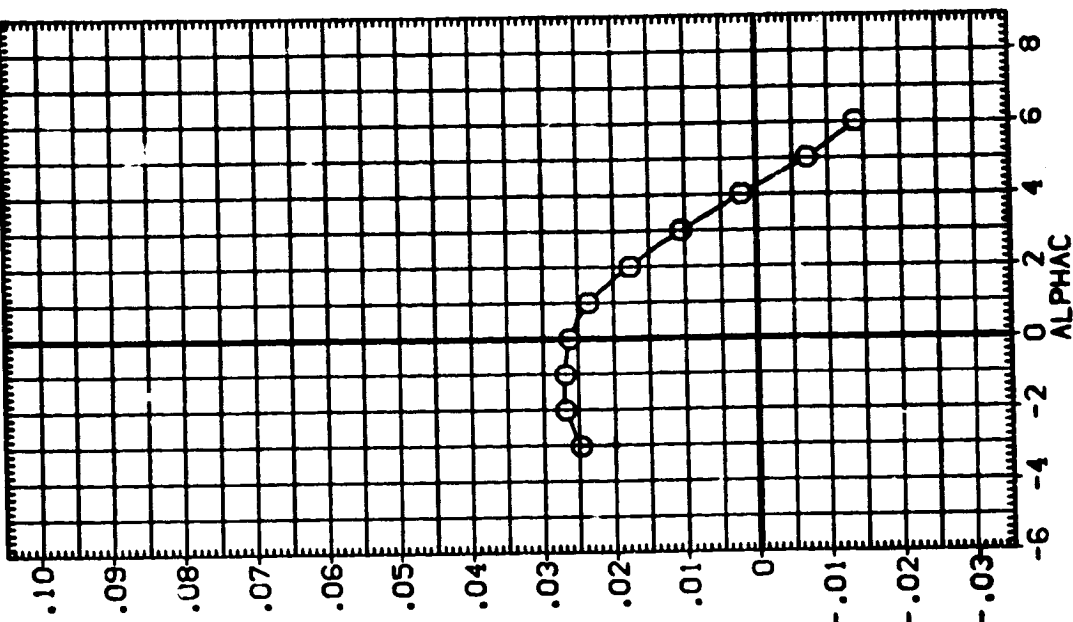


FIG.7 CARRIER ISOLATED AERO CHARACTERISTICS

$MACH = .60$

DATA SET SYMBOL (SE9815) \bigcirc CONFIGURATION DESCRIPTION ARC14-080-1 CA23 747/3 (-H15) (CARRIER ISOLATED)

BETAC RUO-C .000

REFERENCE INFORMATION
 SREF 5500.0000 SQ.FT.
 LREF 327.7800 IN.
 BREF 2348.0400 IN.
 XMRP 1339.9000 IN.
 YMRP .0000 IN.
 ZMRP 190.7500 IN.
 SCALE .0125

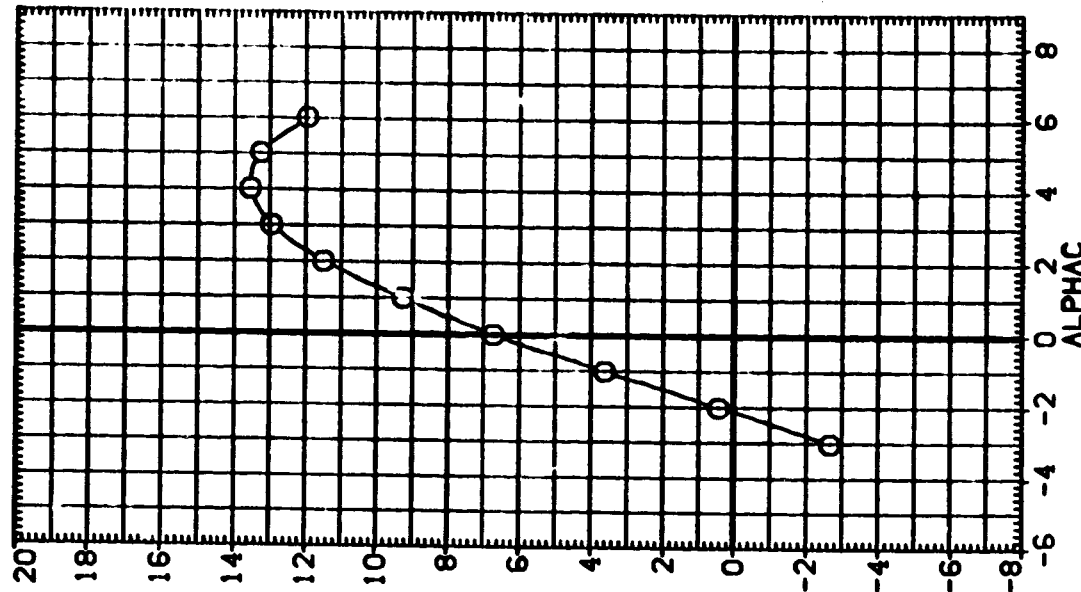
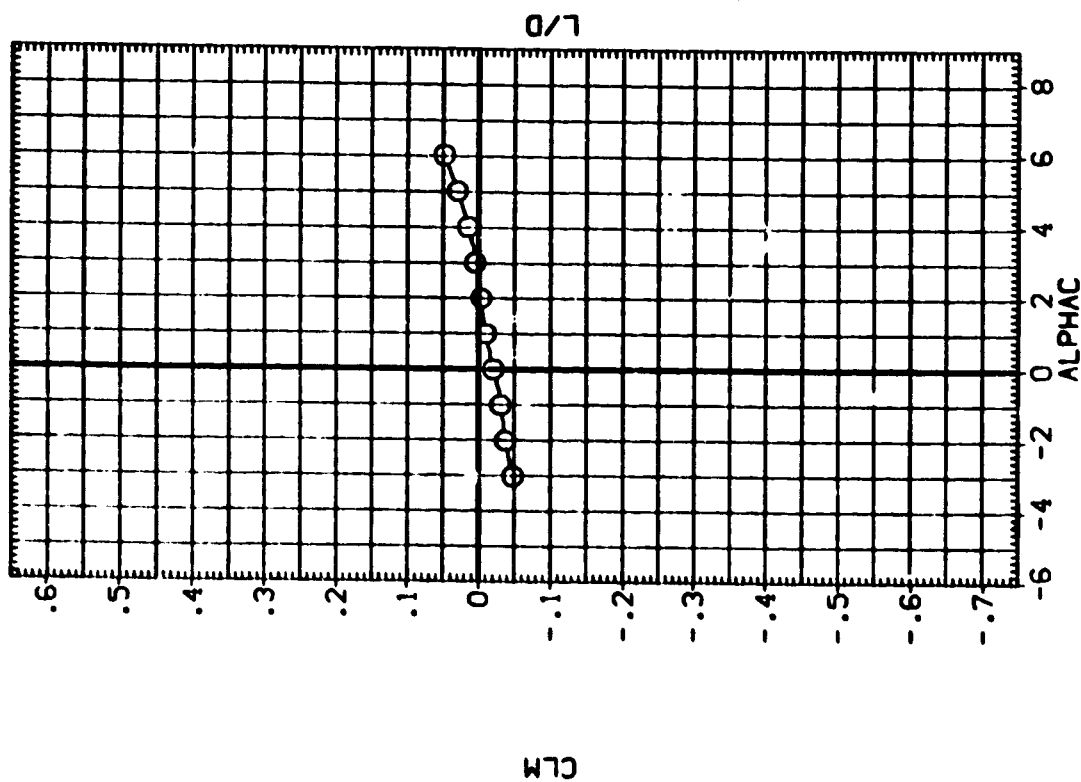


FIG.7 CARRIER ISOLATED AERO CHARACTERISTICS

(A)MACH = .60

DATA SET SYMBOL (869815) ○ CONFIGURATION DESCRIPTION ARC14-080-1 CA23 747/3 (-M15) (CARRIER ISOLATED)

BETAC .000 RUO-C .000

REFERENCE INFORMATION
 SREF 5500.0000 99. FT.
 LREF 327.7800 IN.
 BREF 2348.0400 IN.
 XMRP 1335.5000 IN.
 YMRP .0000 IN.
 ZMRP 190.7500 IN.
 SCALE .0125

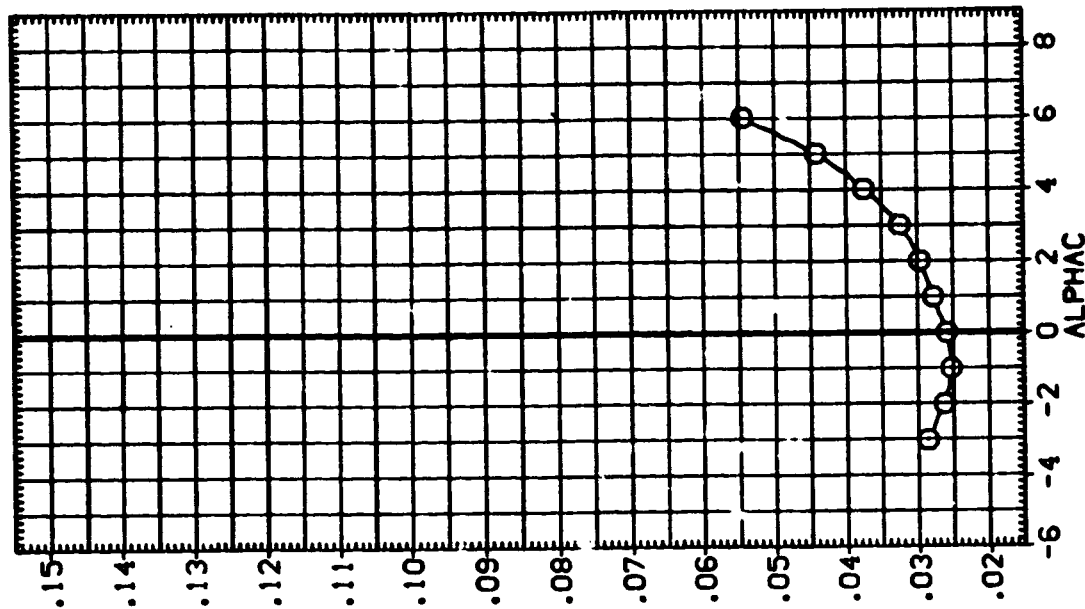
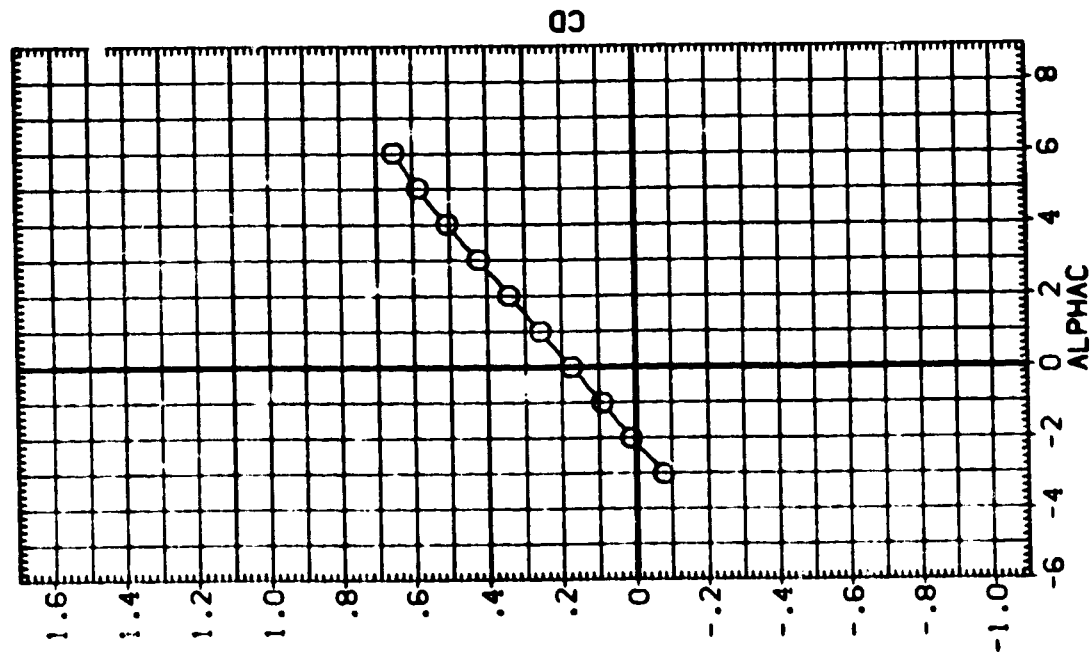


FIG.7 CARRIER ISOLATED AERO CHARACTERISTICS
 (A)MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION BETAC RUO-C

(BES815) ○ ARC14-080-1 CA23 747/3 (-H15) (CARRIER ISOLATED) .000 .000

REFERENCE INFORMATION

SREF	5500.0000	50. FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.5000	IN.
YMRP	.0000	IN.
ZMRP	190.7500	IN.
SCALE	.0125	

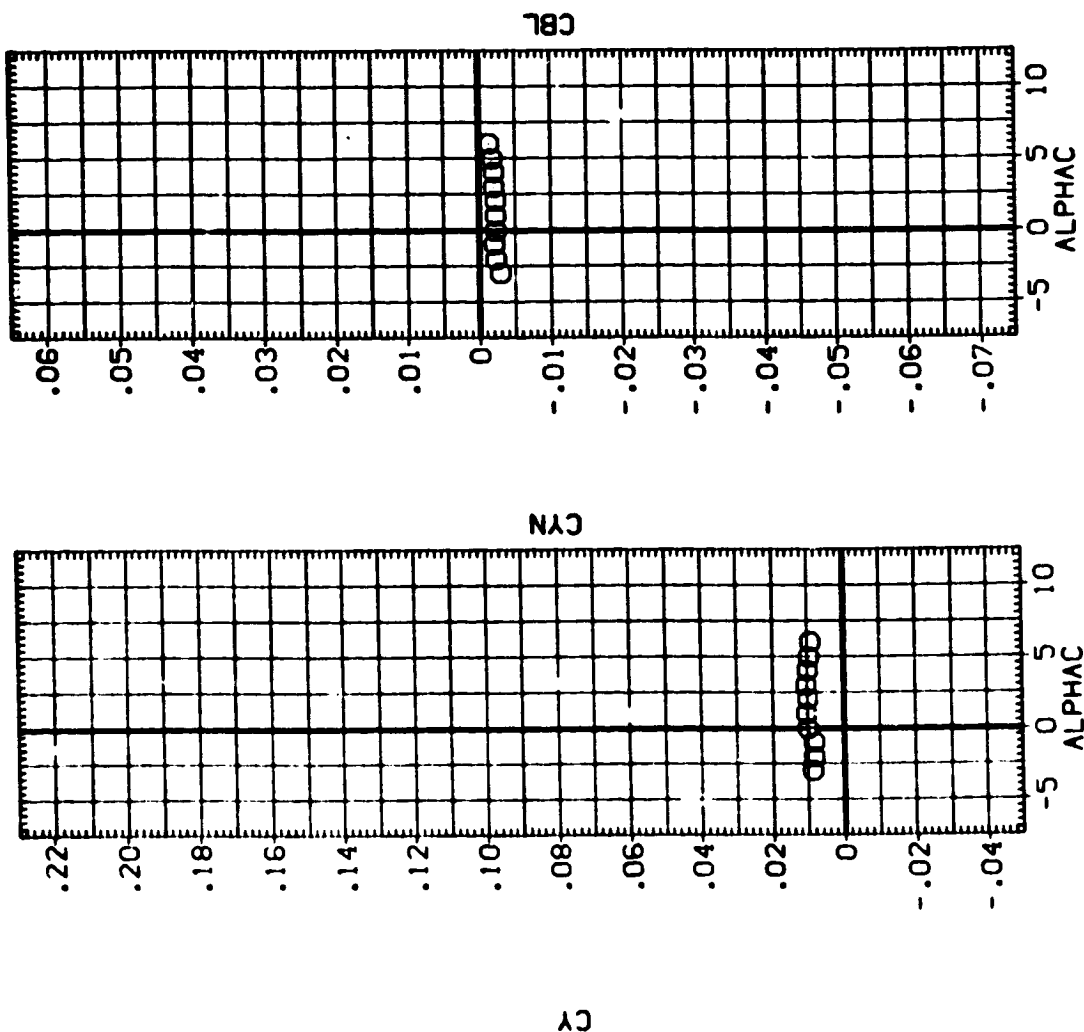


FIG.7 CARRIER ISOLATED AERO CHARACTERISTICS

(A)MACH = .60



DATA SET SYMBOL CONFIGURATION DESCRIPTION
(BES016) O ARC14-080-1 CA23 747/2 (CARRIER ISOLATED)

BETAC STAB-C RUO-C
.000 5.000 .000

REFERENCE INFORMATION
SREF 5500.0000 50.00
LREF 377.7800 IN.
BREF 2348.0400 IN.
XMRP 1339.8000 IN.
YMRP .0000 IN.
ZMRP 190.7500 IN.
SCALE .0125

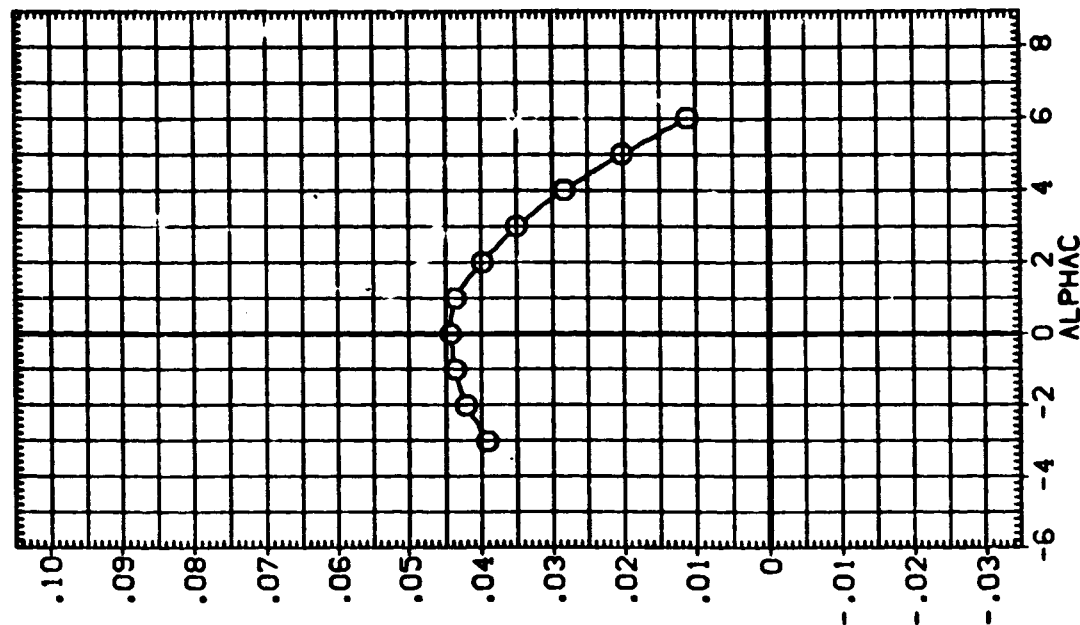
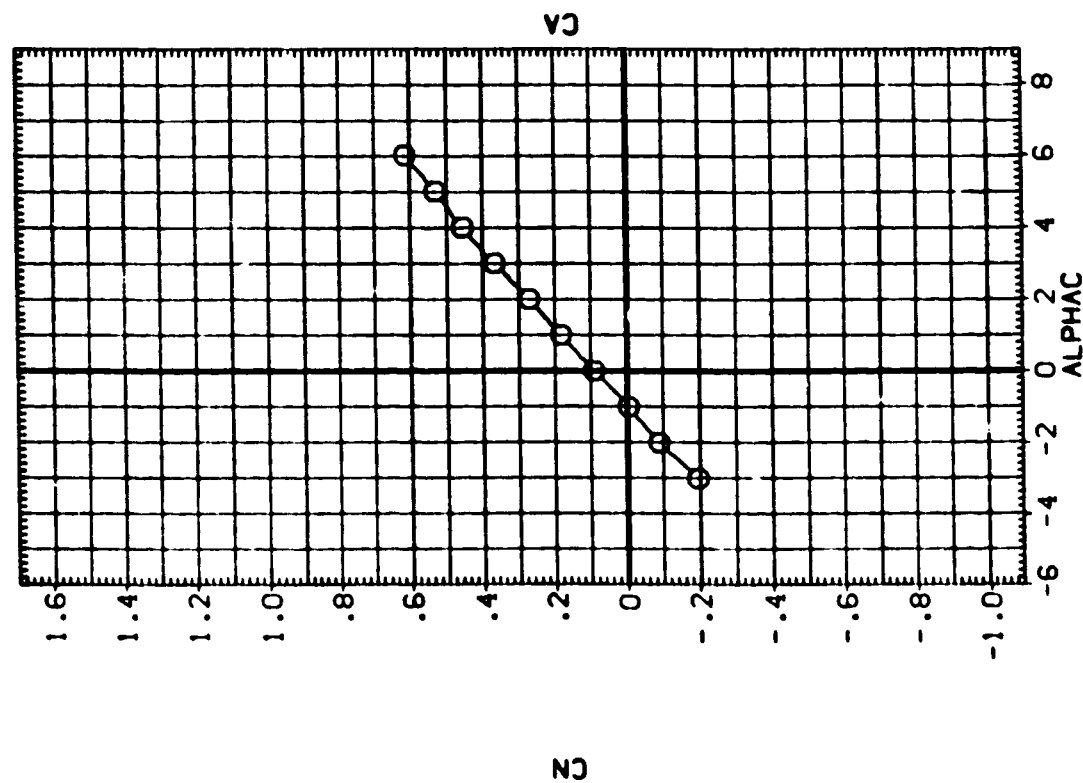


FIG.7 CARRIER ISOLATED AERO CHARACTERISTICS

(A)MACH = .60

DATA SET SYMBOL (BESS16) \circ CONFIGURATION DESCRIPTION ARC14-080-1 CA23 747/2 (CARRIER ISOLATED)

BETAC .000 STAB-C 5.000 PLD-C .000

REFERENCE INFORMATION
 SREF 5500.0000 SQ. FT.
 LREF 327.7600 IN.
 BREF 2348.0400 IN.
 XMRP 1339.9000 IN. XC
 YMRP .0000 IN. YC
 ZMRP 190.7500 IN. ZC
 SCALE .0125

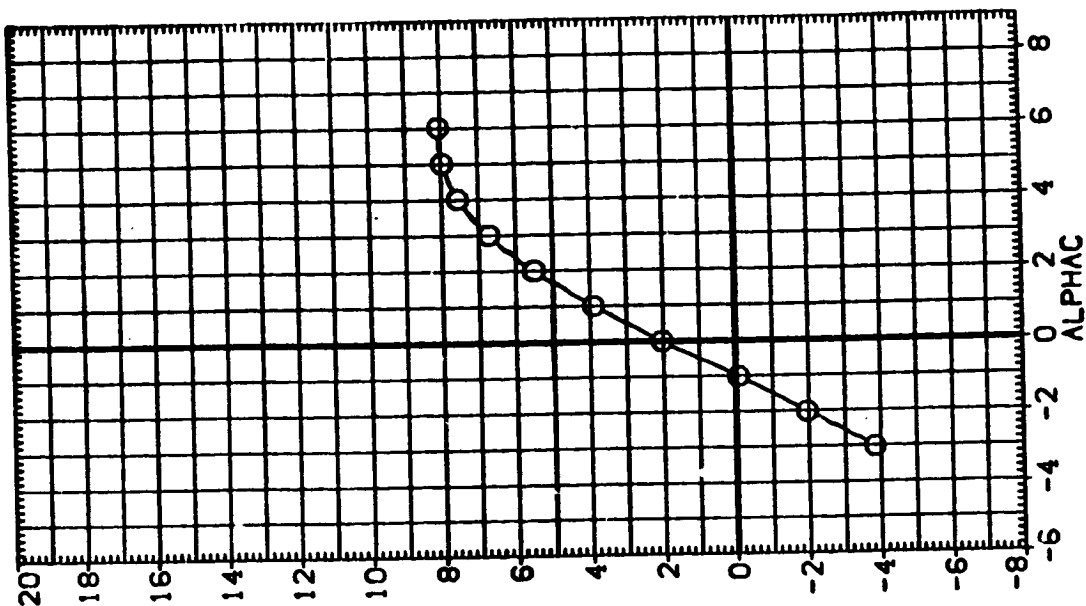
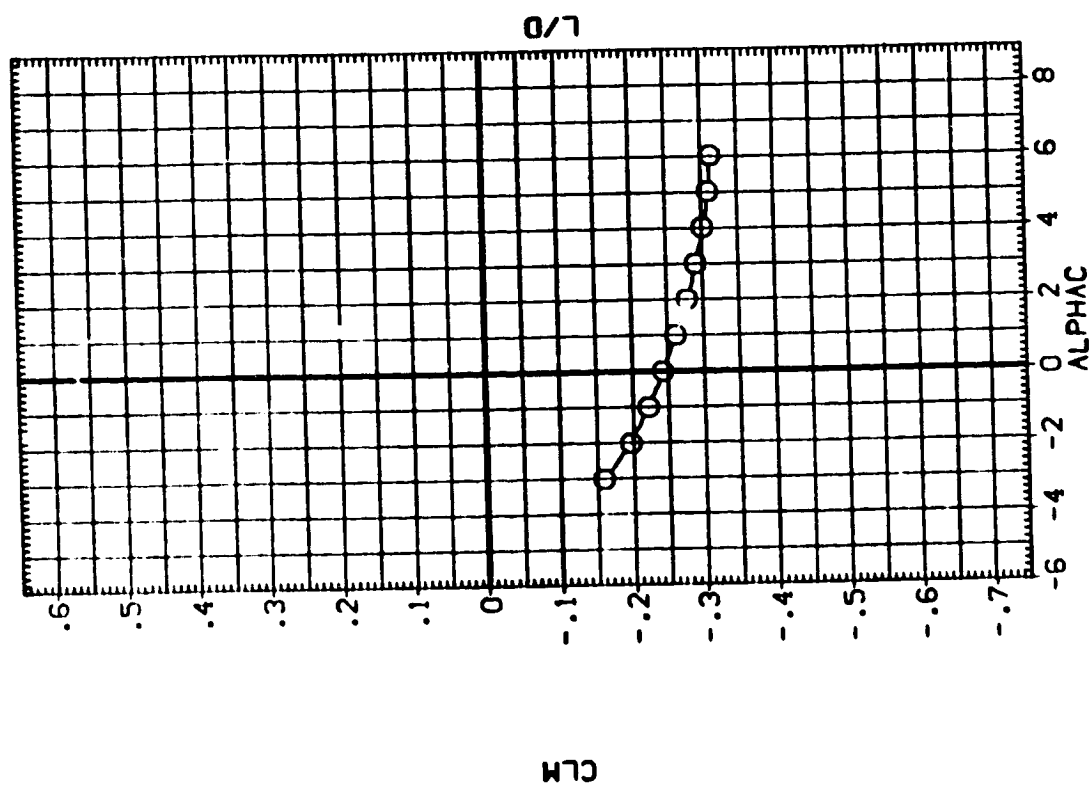


FIG.7 CARRIER ISOLATED AERO CHARACTERISTICS
 (A)MACH = .60

DATA SET SYMBOL (BE9816) \bigcirc ARC14-080-1 CA23 747/2 (CARRIER ISOLATED)

BETAC .000 STAB-C 5.000 RUO-C .000

REFERENCE INFORMATION
 SREF 5500.0000 50.FT.
 LREF 327.7800 IN.
 BREF 2348.0400 IN.
 YMRP 1339.9000 IN. XC
 YMRP .0000 IN. YC
 ZMRP 190.7500 IN. ZC
 SCALE .0125

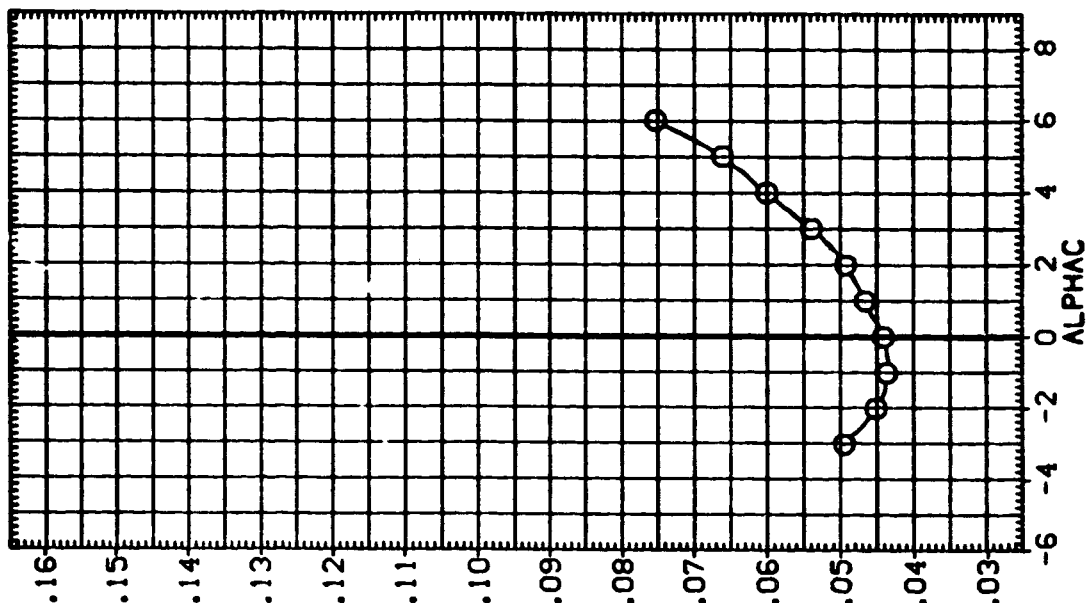
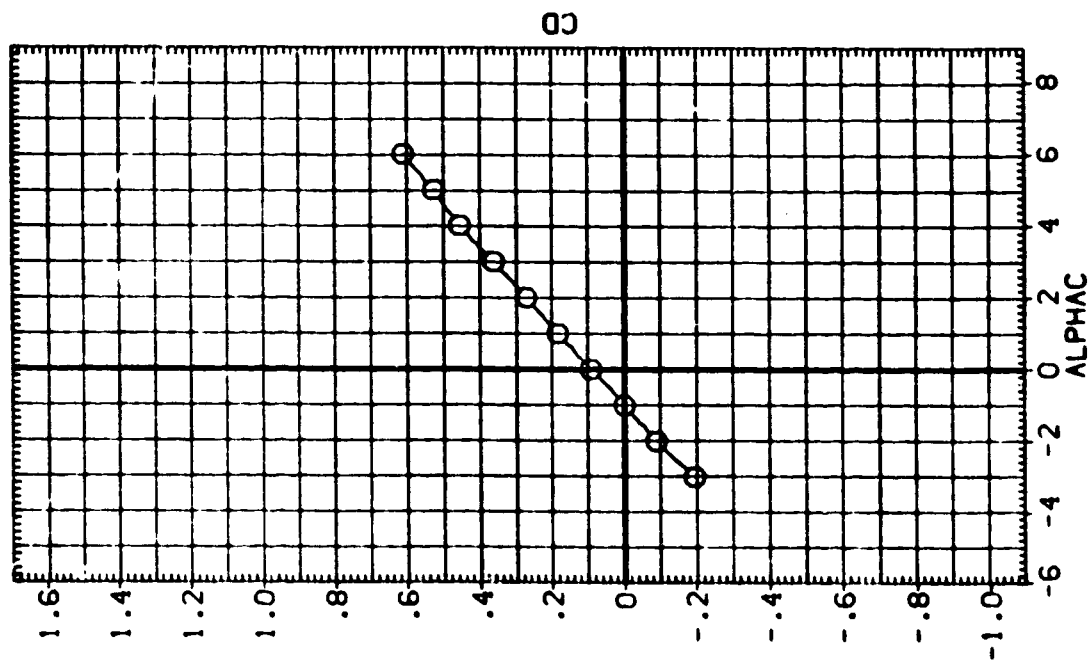


FIG.7 CARRIER ISOLATED AERO CHARACTERISTICS

(A)MACH = .60

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

DATA SET SYMBOL (BE9816) ○ CONFIGURATION DESCRIPTION ARC14-080-1 CA23 747/2 (CARRIER ISOLATED)

BETAC .000 STAB-C 5.000 RUO-C .000

REFERENCE INFORMATION
 SREF 5500.0000 50.FT.
 LREF 327.7800 IN.
 BREF 2348.0400 IN.
 YMRP 1339.5000 IN.
 ZMRP 190.7500 IN.
 SCALE .0125

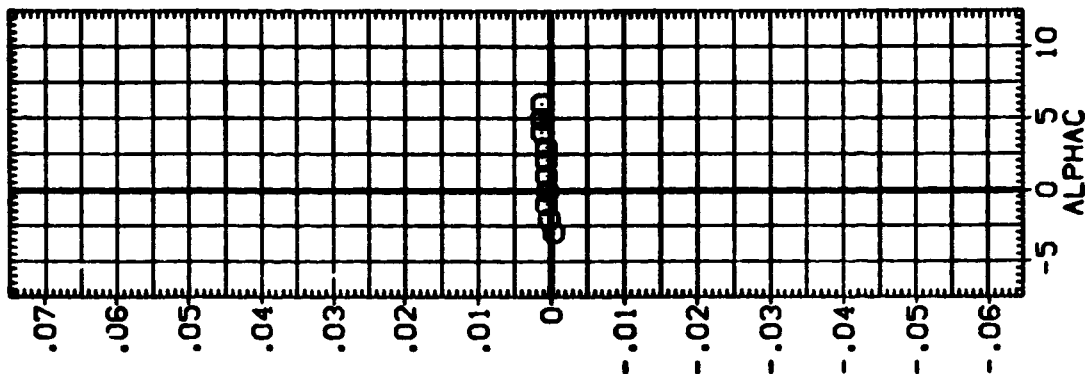
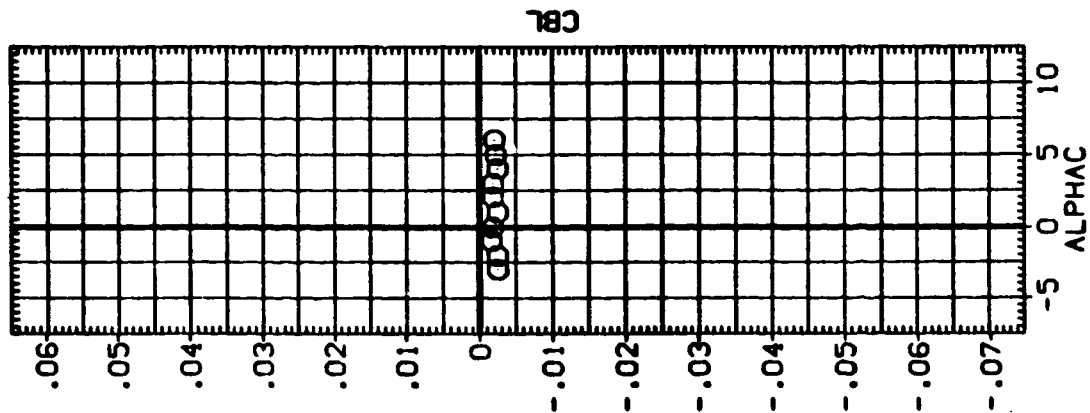
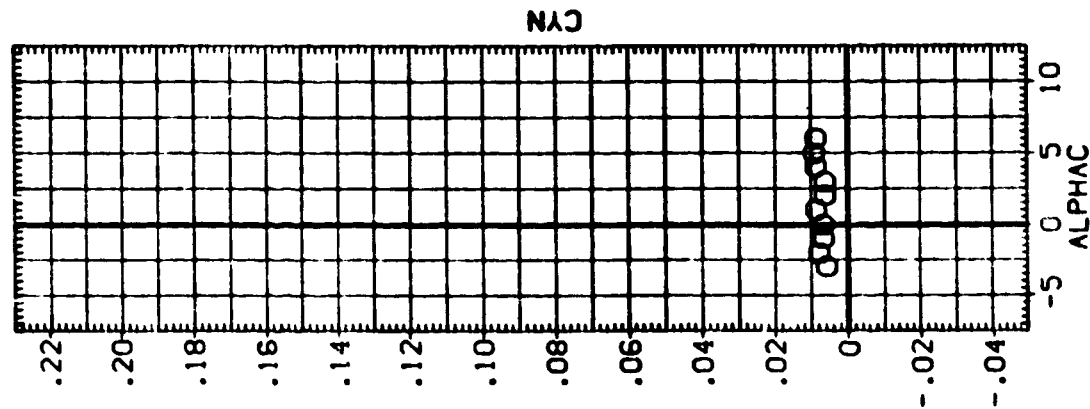


FIG.7 CARRIER ISOLATED AERO CHARACTERISTICS

(A)MACH = .60



DATA SET SYMBOL (BES817) ○ CONFIGURATION DESCRIPTION ARC14-080-1 CA23 747/1 AT1 (CARRIER ISOLATED)

BETAC STAB-C RUJ-C
.000 5.000 .000

REFERENCE INFORMATION
SREF 5500.0000 90.FT.
LREF 327.7800 IN.
BREF 2348.0400 IN.
XMRP 1339.9000 IN. AC
YMRP .0000 IN. VC
ZMRP 190.7500 IN. ZC
SCALE .0125

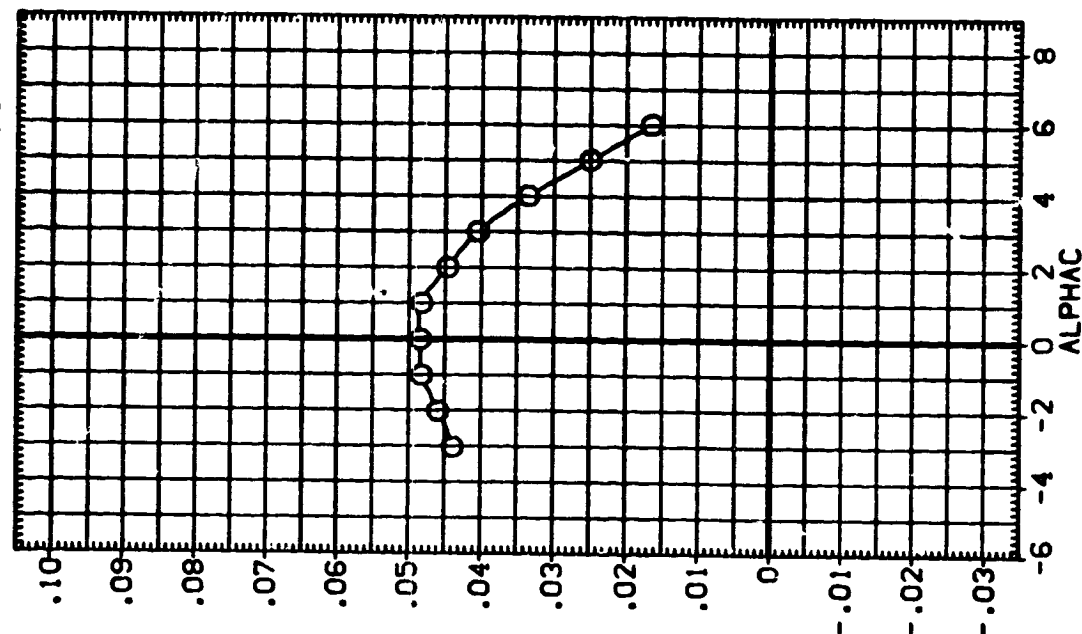
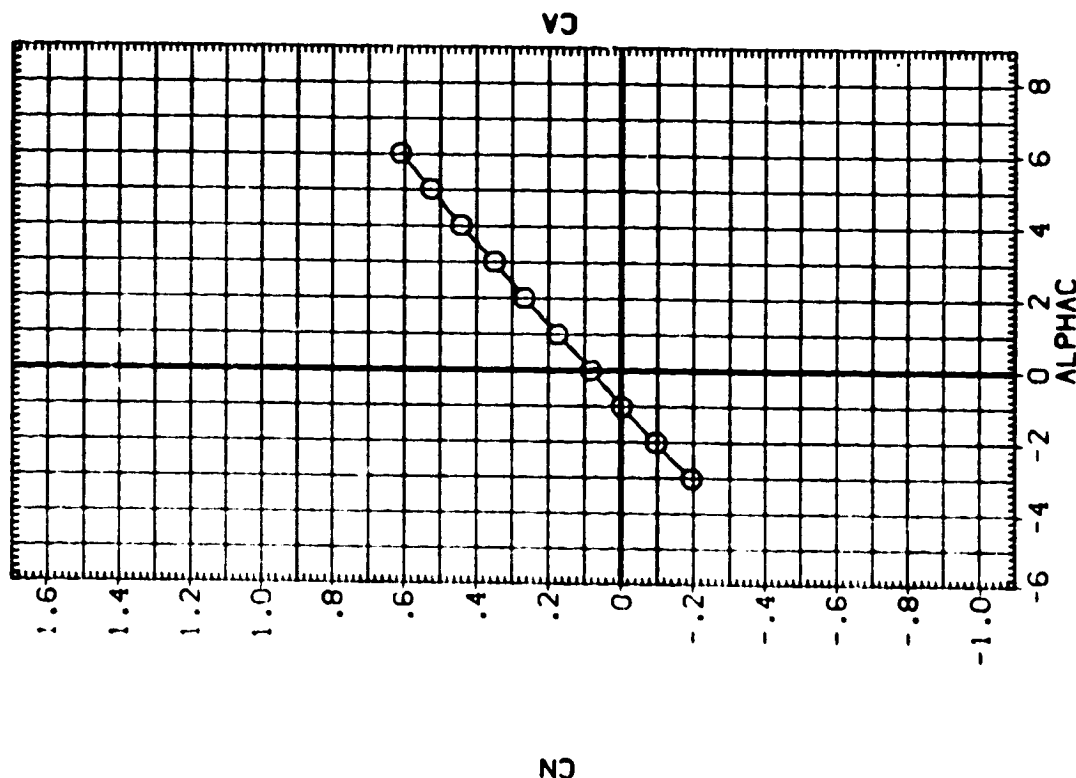


FIG.7 CARRIER ISOLATED AERO CHARACTERISTICS

(A)MACH = .60

DATA SET SYMBOL (BE9817) \bigcirc CONFIGURATION DESCRIPTION ARC14-080-1 CA23 747/1 AT1 (CARRIER ISOLATED)

DETAC .000 STAB-C 5.000 RUO-C .000

REFERENCE INFORMATION
 SREF 5300.0000 90. FT.
 LREF 377.7000 IN.
 BREF 2348.0400 IN. AC
 YPRP 1339.5000 IN. VC
 ZPRP 190.7500 IN. ZC
 SCALE .0125

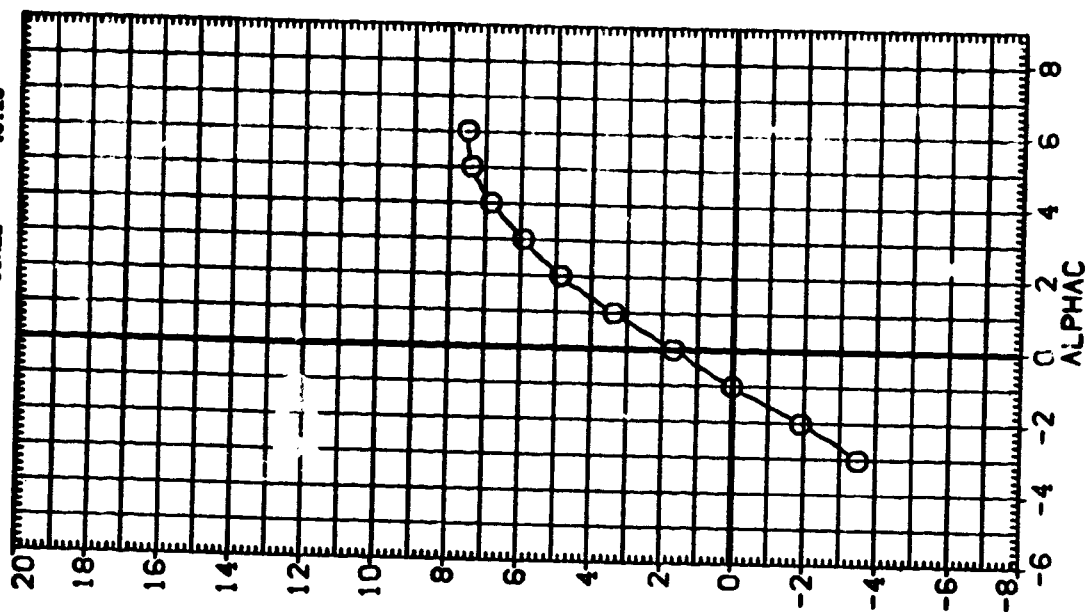
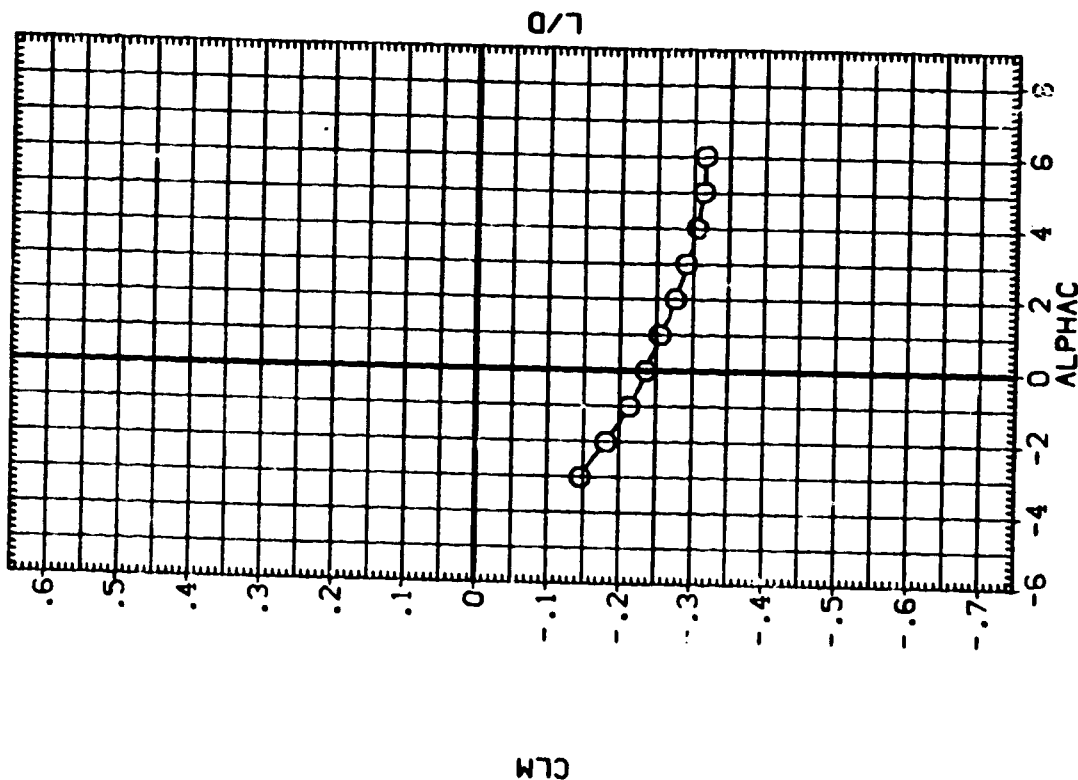


FIG.7 CARRIER ISOLATED AERO CHARACTERISTICS

(A)MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(BES017) ○ ARC14-080-1 CA23 747/1 AT1 (CARRIER ISOLATED)

BETAC STAB-C RUO-C
.000 5.000 .000

REFERENCE INFORMATION
SREF 5500.0000 80.FT.
LREF 327.7800 IN.
BREF 2348.0400 IN.
XMRP 1339.8000 IN.
YMRP 180.7500 IN.
ZMRP 180.7500 IN.
SCALE .0125

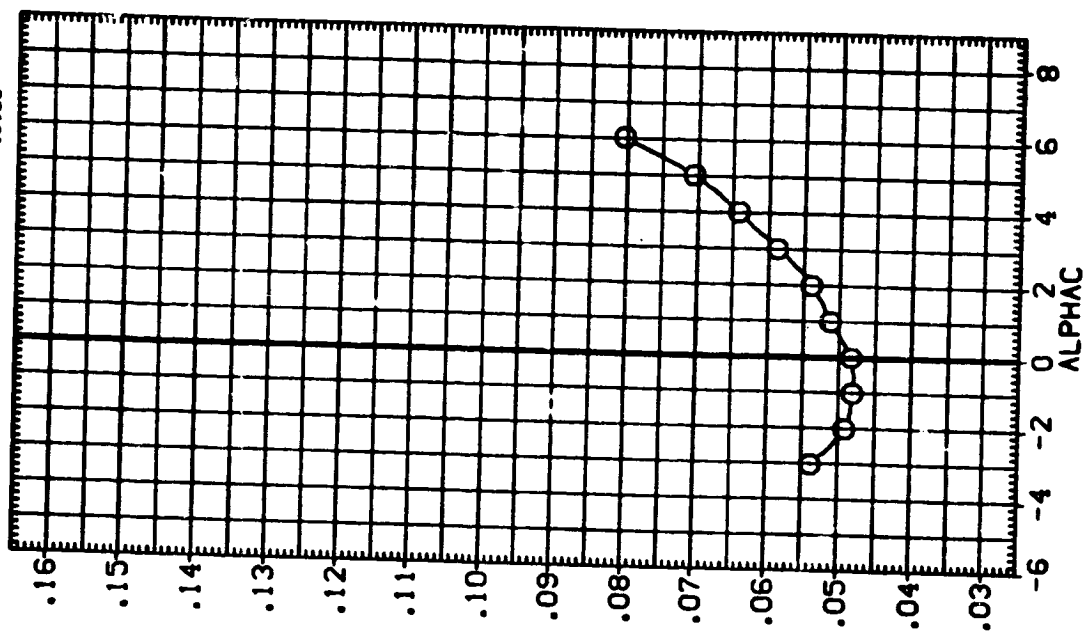
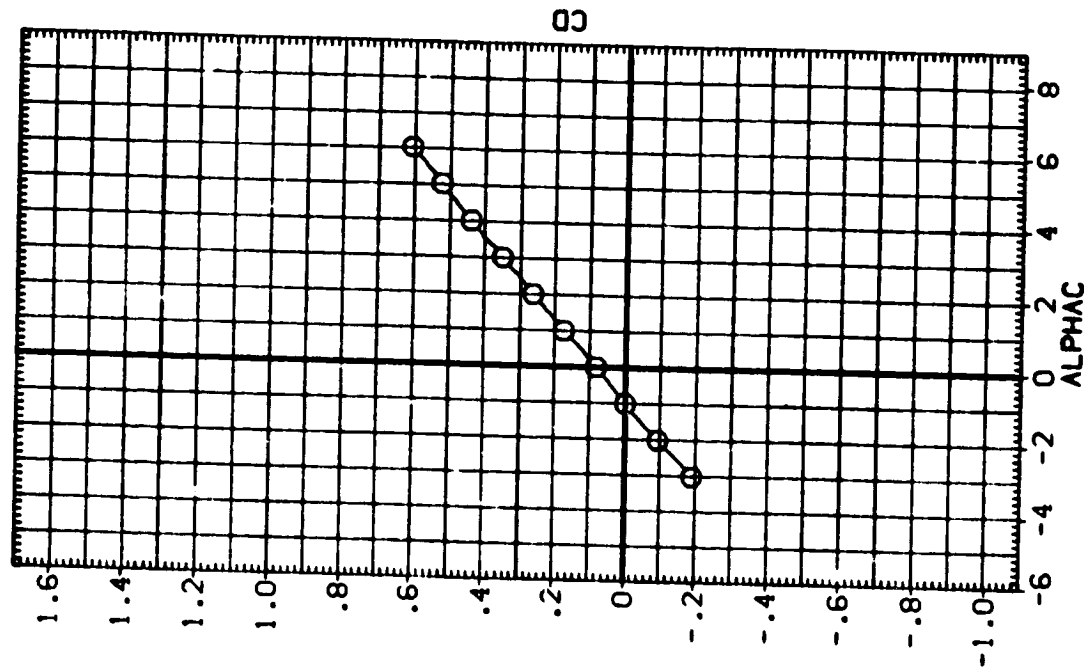


FIG.7 CARRIER ISOLATED AERO CHARACTERISTICS

(A)MACH = .60

DATA SET SVI.80L
(BES917) O ARC14-080-1 CA23 747/1 AT1 (CARRIER ISOLATED)

CONFIGURATION DESCRIPTION
BETAC STAB-C RUO-C

5500.0000 SQ.FT.
327.7600 IN.
2348.0400 IN.
1338.9000 IN.
190.7500 IN.
SCALE .0125

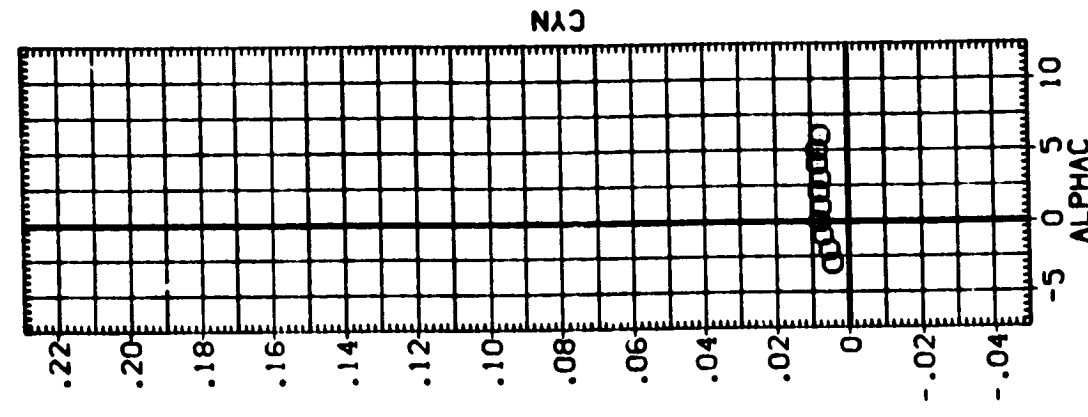
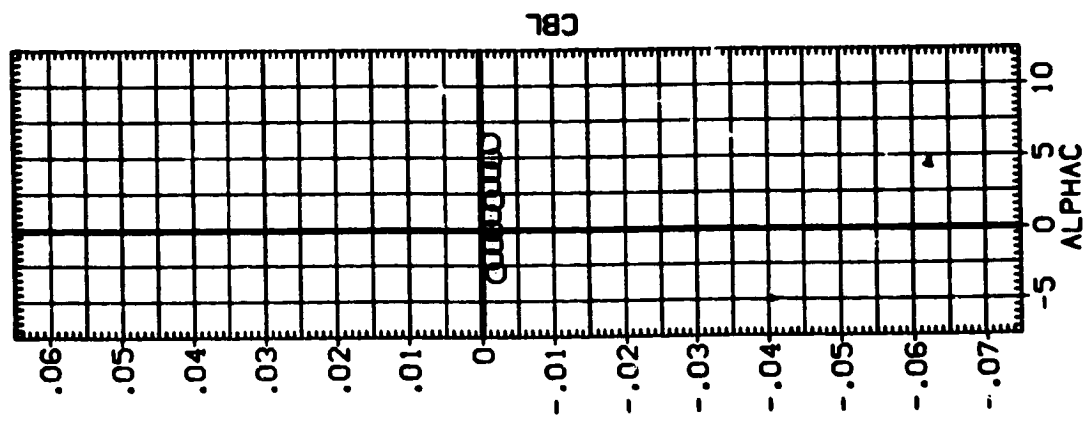
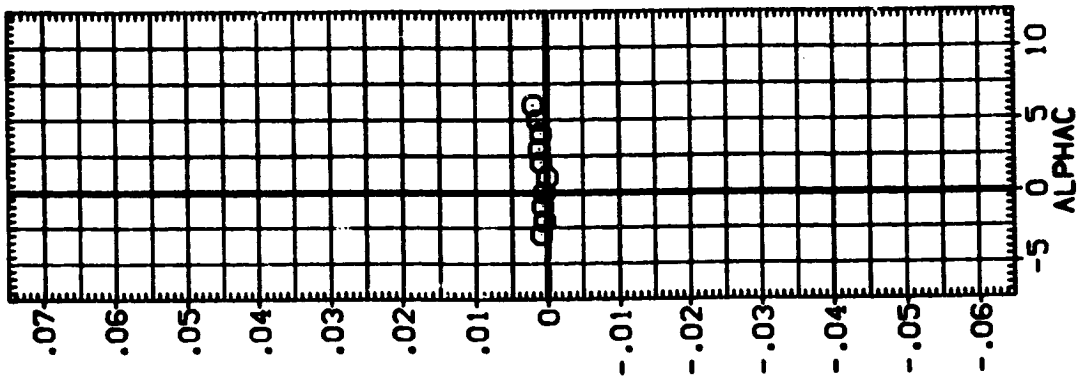


FIG.7 CARRIER ISOLATED AERO CHARACTERISTICS

(A)MACH = .60

DATA SET SYMBOL (BE98:8) ○ CONFIGURATION DESCRIPTION ARC14-080-1 CA23 747/1 A11 (CARRIER ISOLATED)

BETAC .000 STAB-C 5.000 RUD-C 10.000

REFERENCE INFORMATION
SREF 5500.0000 IN. SG.FT.
LREF 327.7800 IN.
BREF 2346.0400 IN.
XREF 1339.9000 IN. XC
YREF .0000 IN. YC
ZREF 190.7500 IN. ZC
SCALE .0125

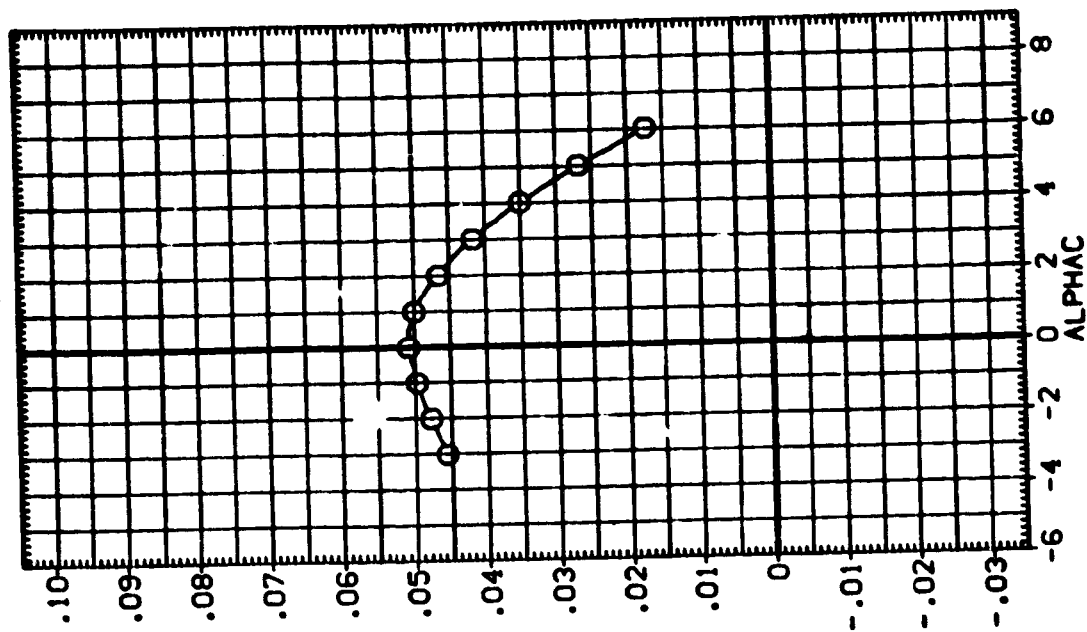
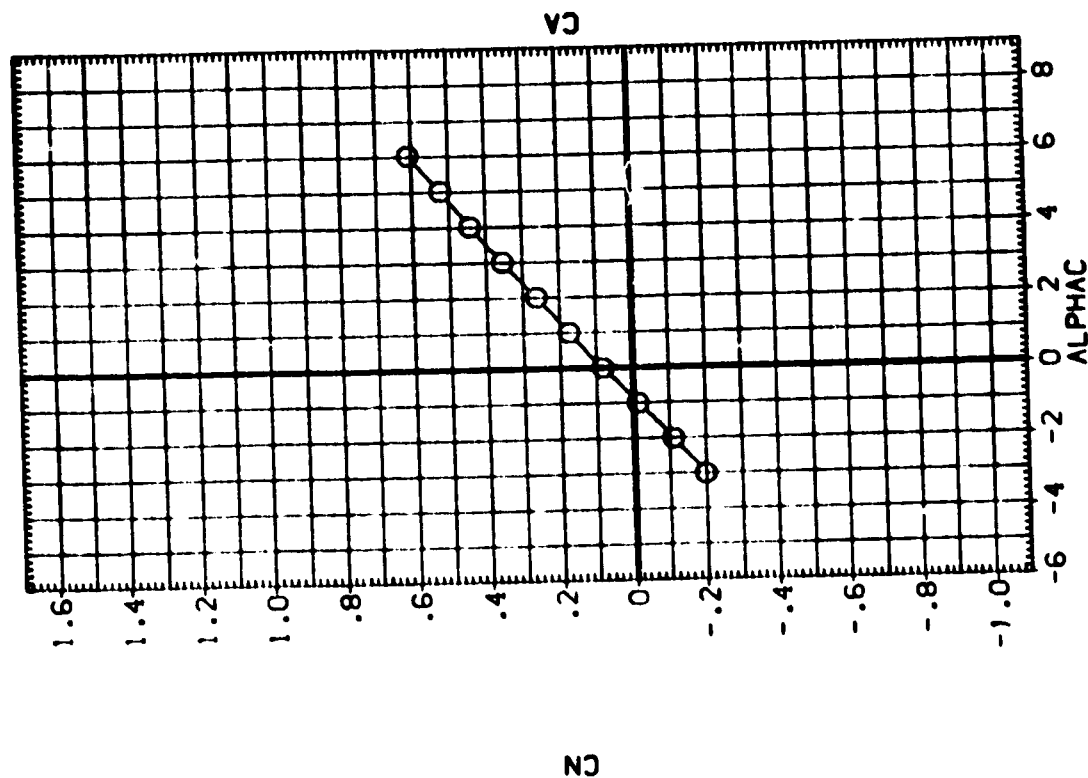


FIG.7 CARRIER ISOLATED AERO CHARACTERISTICS

(A)MACH = .60

DATA SET SYMBOL: (95918) \bigcirc CONFIGURATION DESCRIPTION: ARC14-080-1 CA23 747/1 AT1 (CARRIER ISOLATED)

BETAC: .000 STAB-C: 5.000 RUO-C: 10.000

REFERENCE INFORMATION
 SREF: 5500.0000 50.FT.
 LREF: 327.7800 IN.
 BREF: 2348.0400 IN.
 XMRP: 1339.5000 IN. XC
 YMRP: .0000 IN. YC
 ZMRP: 190.7500 IN. ZC
 SCALE: .0125

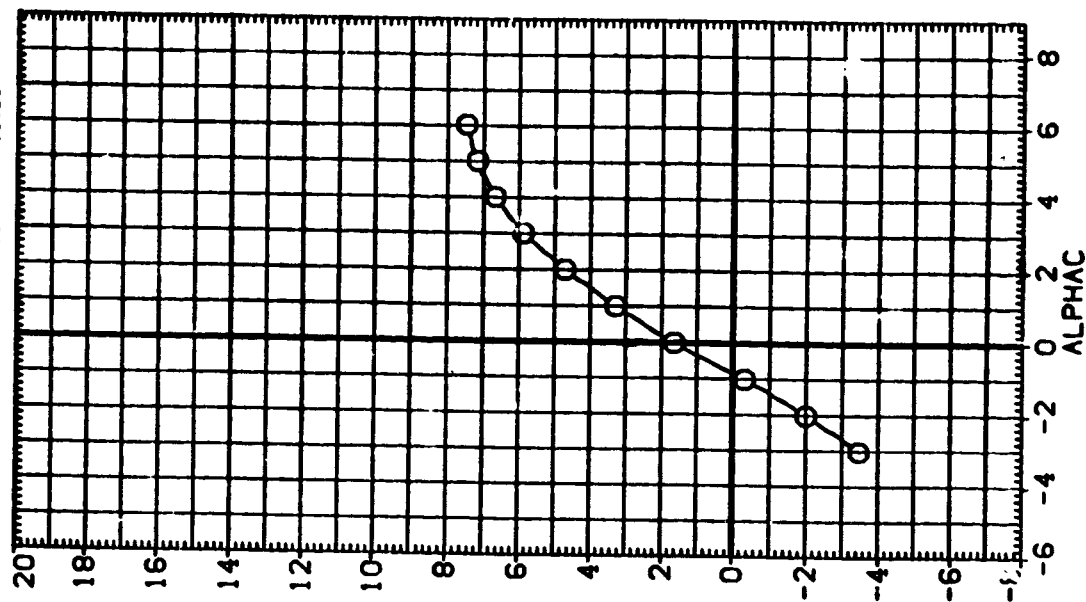
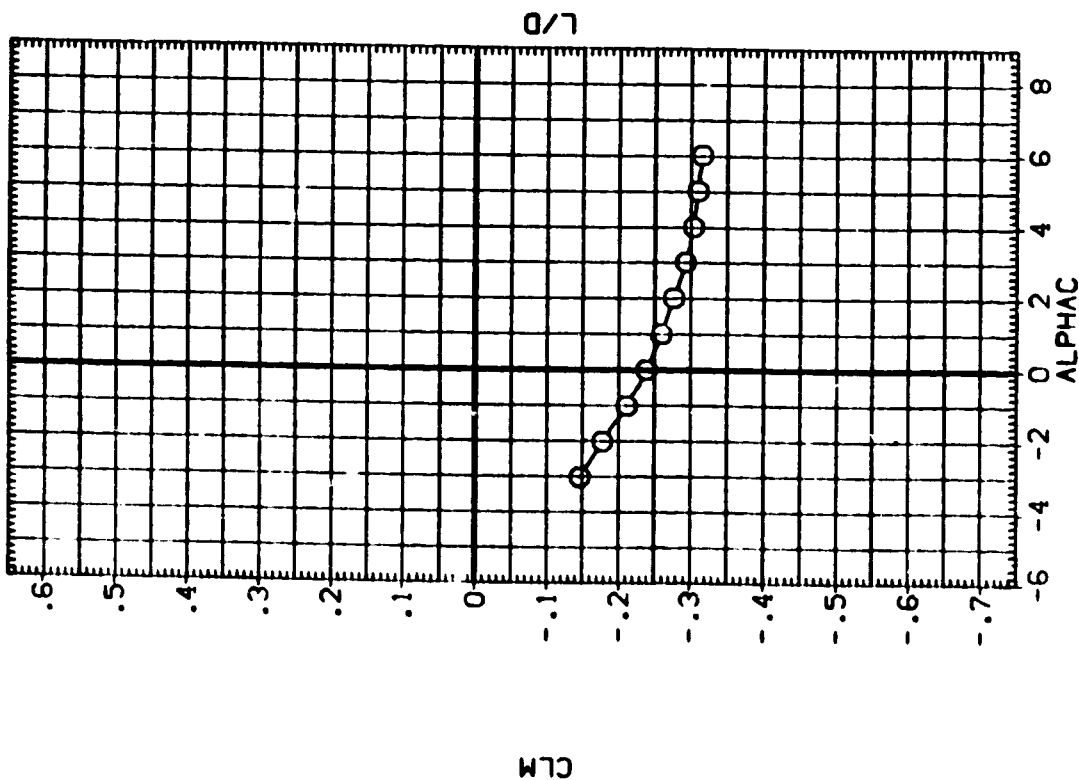


FIG.7 CARRIER ISOLATED AERO CHARACTERISTICS

(A) MACH = .60

REFERENCE INFORMATION

SREF	9500.0000	90.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
YREF	1338.9000	IN.
ZREF	190.7500	IN.
SCALE	.0125	

METAC .000 STAB-C 5.000 RUD-C 10.000

DATA SET SYMBO. (BE98:8) ○ CONFIGURATION DESCRIPTION ARC14-C80-1 CA23 747/1 AT1 (CARRIER ISOLATED)

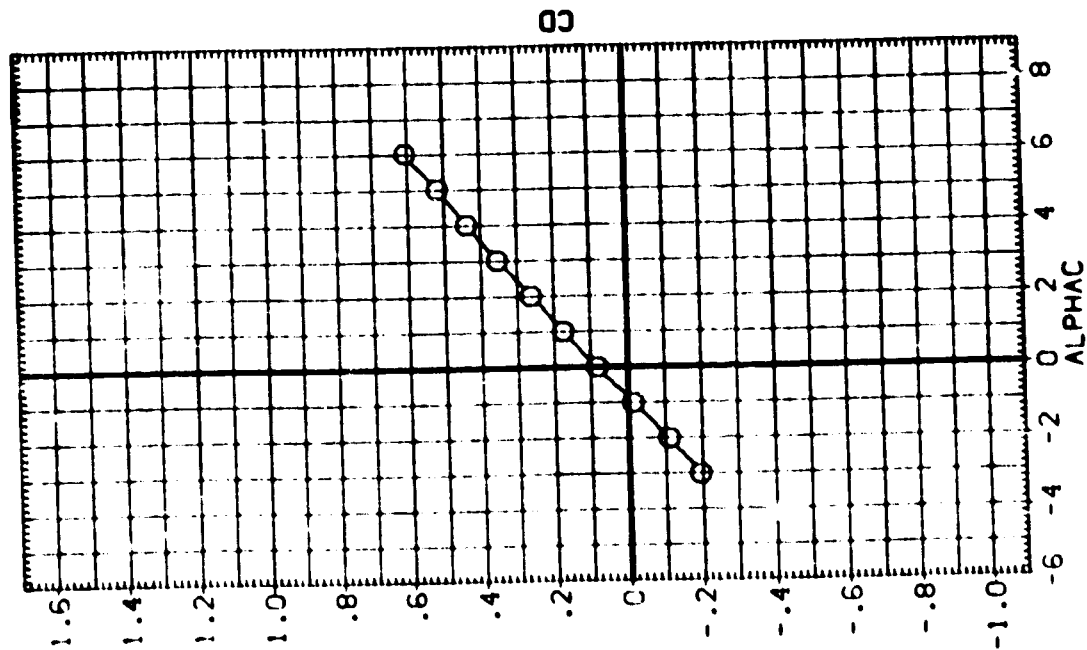
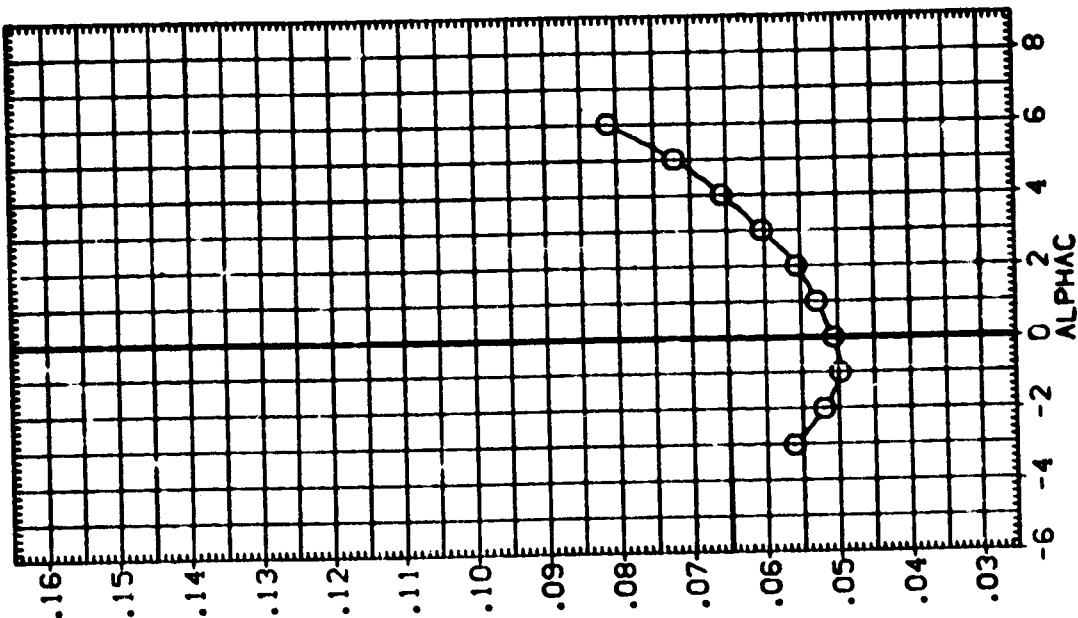


FIG.7 CARRIER ISOLATED AERO CHARACTERISTICS

(A)MACH = .60

DATA SET SYMBOL: CONFIGURATION DESCRIPTION
 (B55019) APC14-080-1 CA23 747/1 AT1 (CARRIER ISOLATED)

BETAC STAB-C RUO-C
 .000 5.000 10.000

REFERENCE INFORMATION
 SREF 5000.0000 50.000 IN.
 LREF 327.7800 32.778 IN.
 BREF 2346.0400 23.460 IN.
 YREF 1379.5000 13.795 IN.
 ZREF 190.7500 19.075 IN.
 SCALE .0125

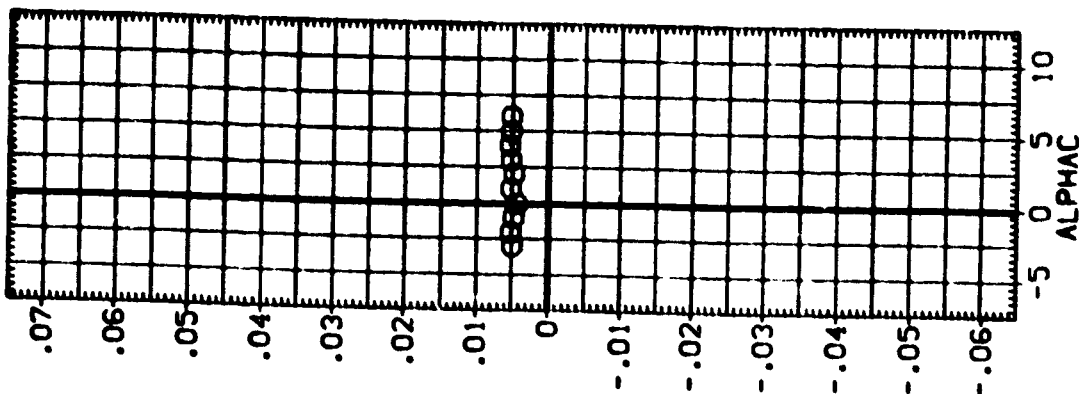
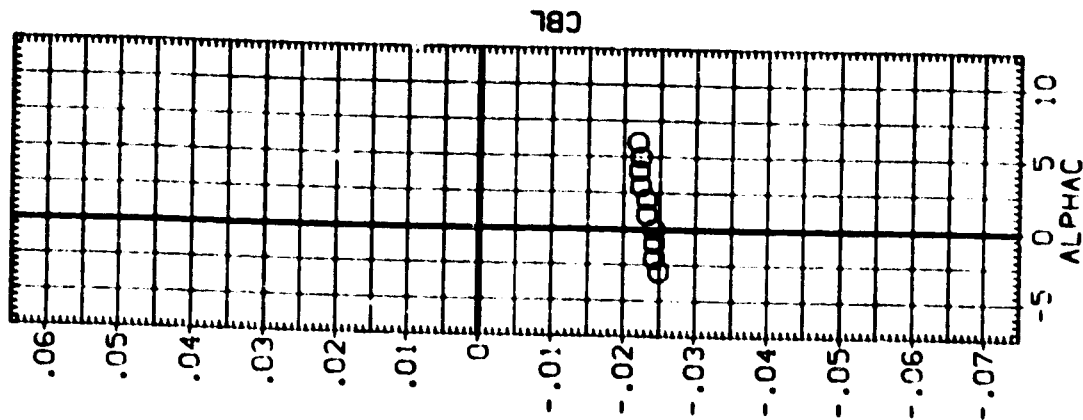
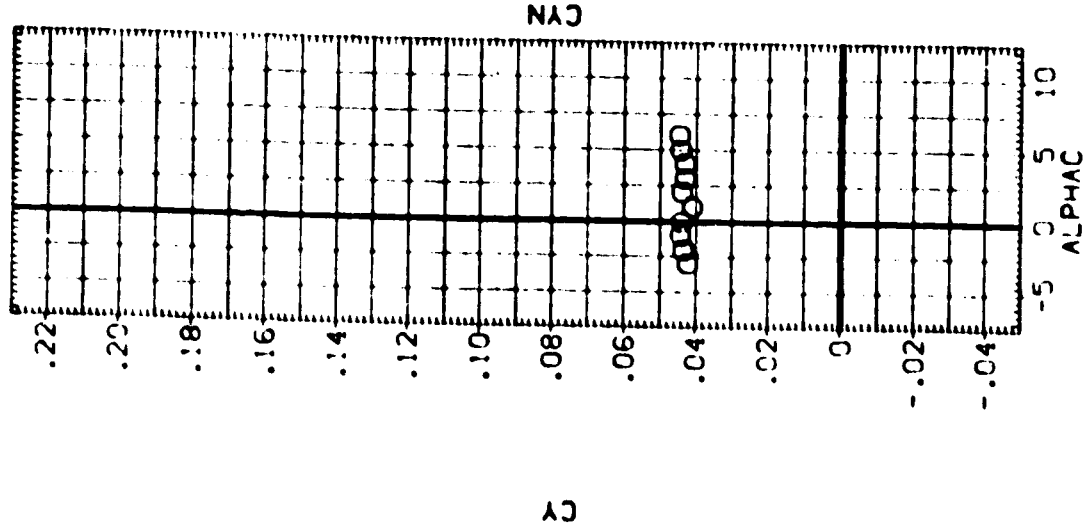


FIG.7 CARRIER ISOLATED AERO CHARACTERISTICS

(A)MACH = .80

REFERENCE INFORMATION

SREF	5900.0000	90.00
LINE	277.7800	IN.
AREF	2348.0400	IN.
YREF	1339.9000	IN.
YREF	.0000	IN.
YREF	190.7500	IN.
SCALE	.0125	

BETAC STAB-C RLO-C

BETAC	.000
STAB-C	-1.000
RLO-C	.000

DATA SET SYNO. CONFIGURATION DESCRIPTION

1969631 C AC14-060-1 CA23 747/1 AT1 (CARRIER ISOLATED)

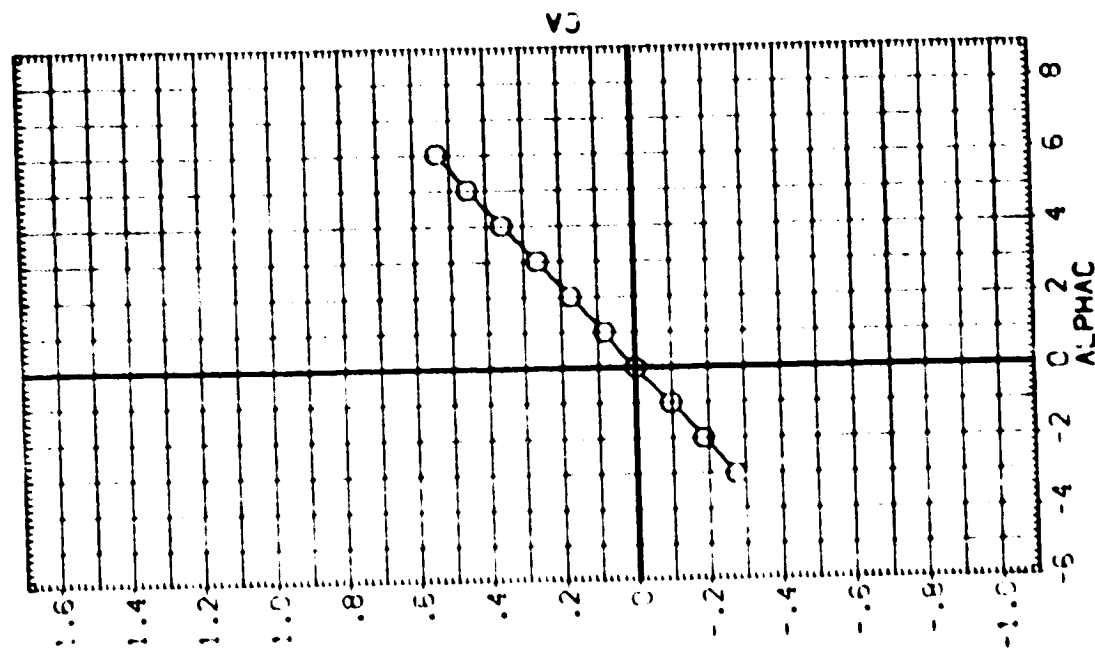
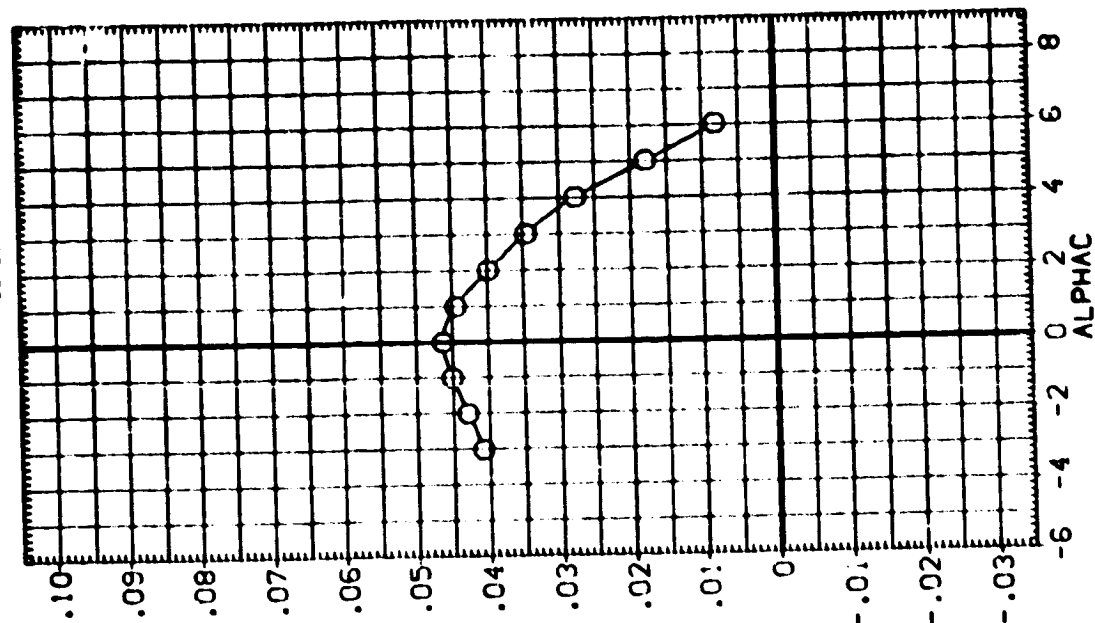


FIG.7 CARRIER ISOLATED AERO CHARACTERISTICS

(A)MACH = .60

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS 100%

DATA SET 51-30L CONFIGURATION DESCRIPTION
 (9E98.9) () ARC14-060-1 CA23 747/1 AT1 (CARRIER ISOLATED)

DETAC .000 STAB-C RUO-C
 .000 -1.000 .000

REFERENCE INFORMATION
 SREF 5500.0000 SQ.FT.
 LREF 327.7800 IN.
 BREF 2348.0400 IN. MC
 XHRP 1339.5000 IN. VC
 YHRP .0000 IN. VC
 ZHRP 190.7500 IN. ZC
 SCALE .0125

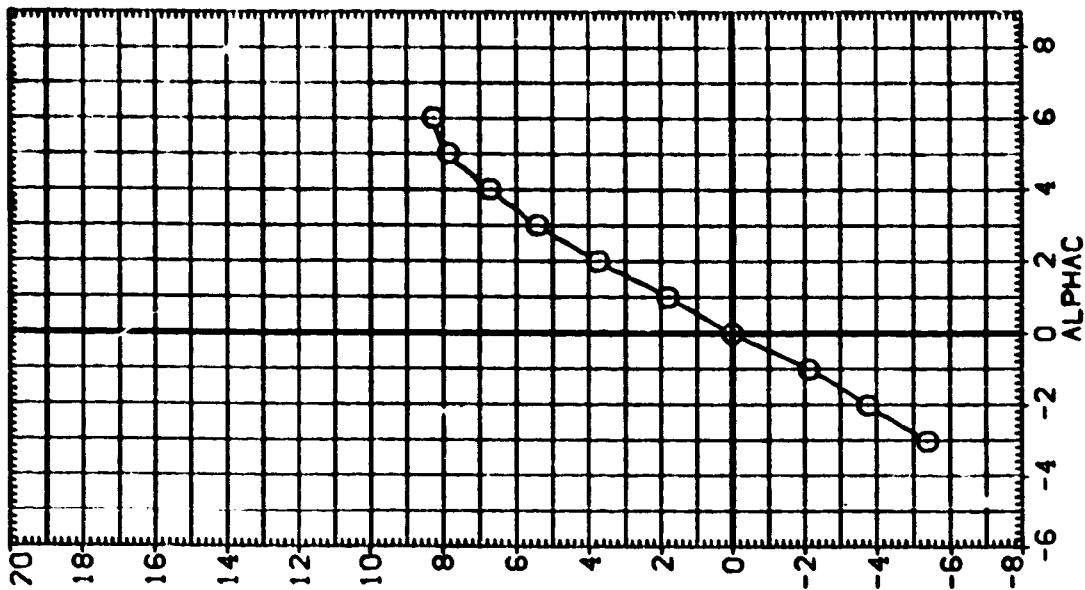
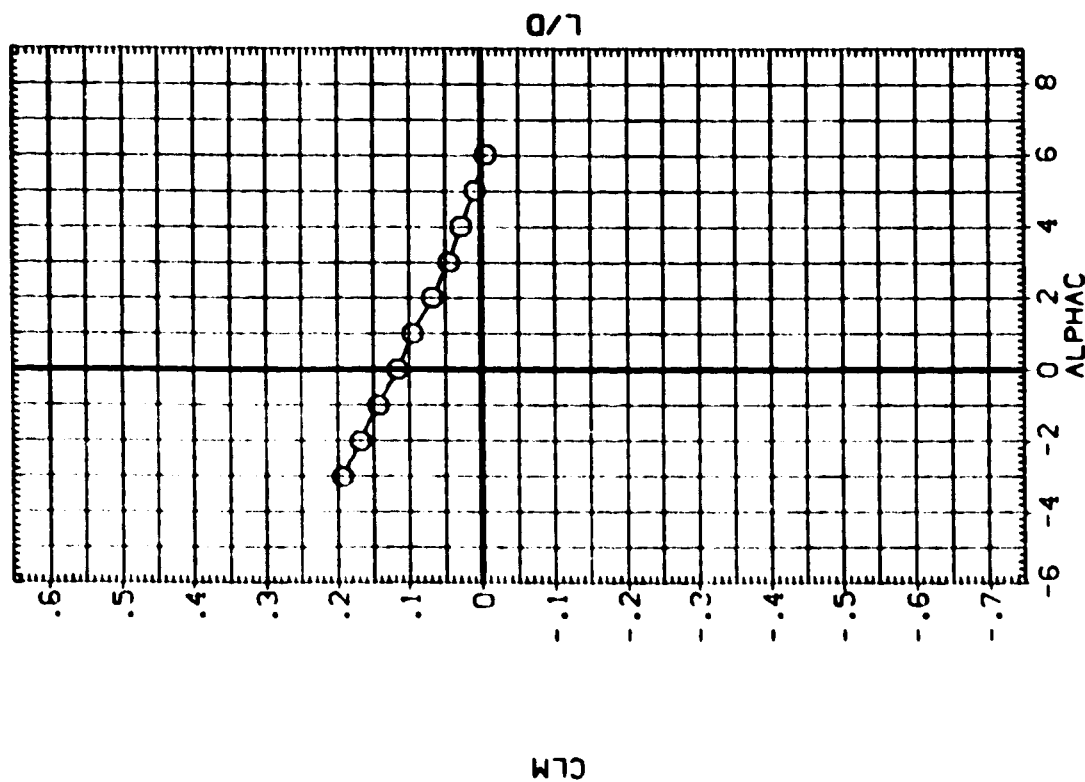


FIG.7 CARRIER ISOLATED AERO CHARACTERISTICS

(A)MACH = .60

DATA SET SYMBOL (869819) ○ CONFIGURATION DESCRIPTION ARC14-080-1 CA23 747/1 AT1 (CARRIER ISOLATED)

BETAC .000 STAB-C RUO-C .000

REFERENCE INFORMATION
 SREF 9500.0000 50.FT.
 LREF 327.7800 IN.
 SREF 2348.0400 IN.
 XMRP 1339.9000 IN.
 YMRP .0000 IN.
 ZMRP 190.7500 IN.
 SCALE .0125

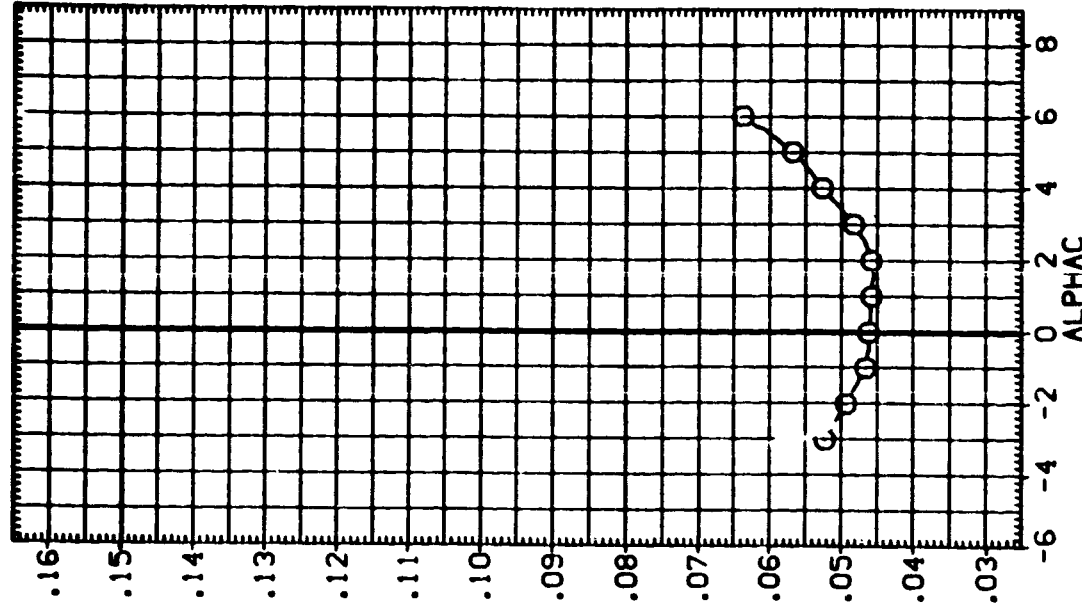
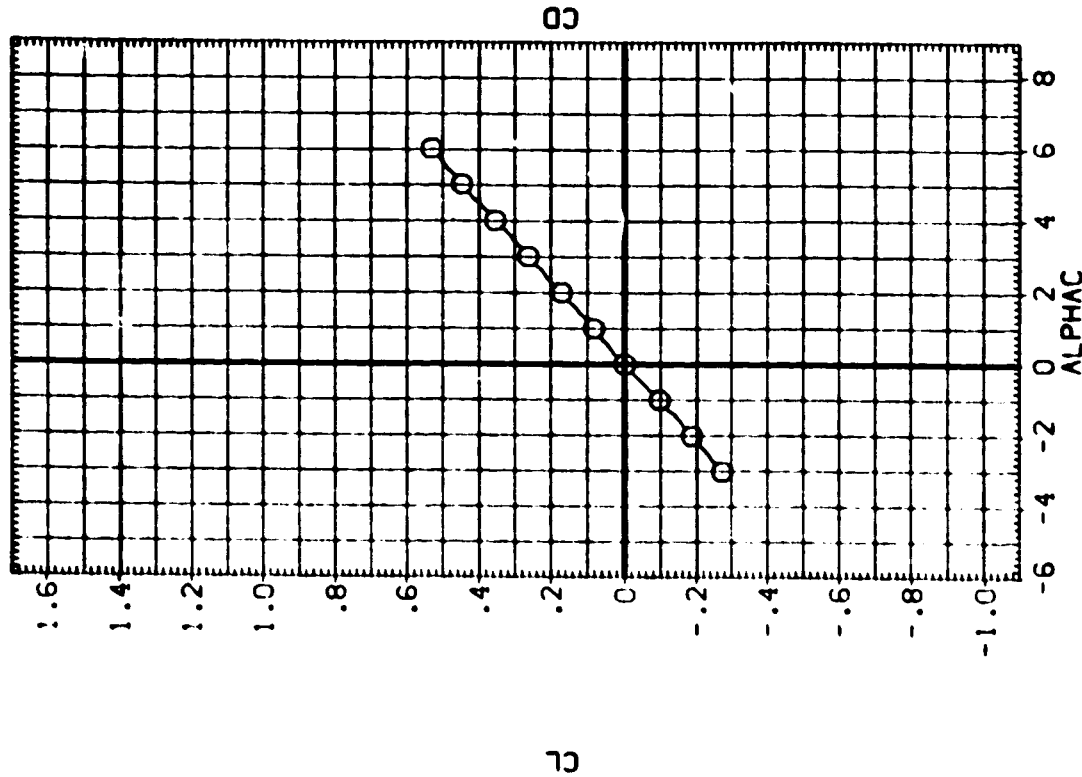


FIG.7 CARRIER ISOLATED AERO CHARACTERISTICS

(A)MACH = .60

DATA SET SYMBOL (BE9819) \odot CONFIGURATION DESCRIPTION ARC 14-080-1 CA23 747/1 AT1 (CARRIER ISOLATED)

BETAC STAB-C RUD-C
.000 -1.000 .000

REFERENCE INFORMATION
SREF 5500.0000 SQ.FT.
LREF 327.7800 IN.
BREF 2346.0400 IN. MC
XMRP 1339.5000 IN. YC
YMRP .0000 IN. ZC
ZMRP 190.7500 IN. ZC
SCALE .0125

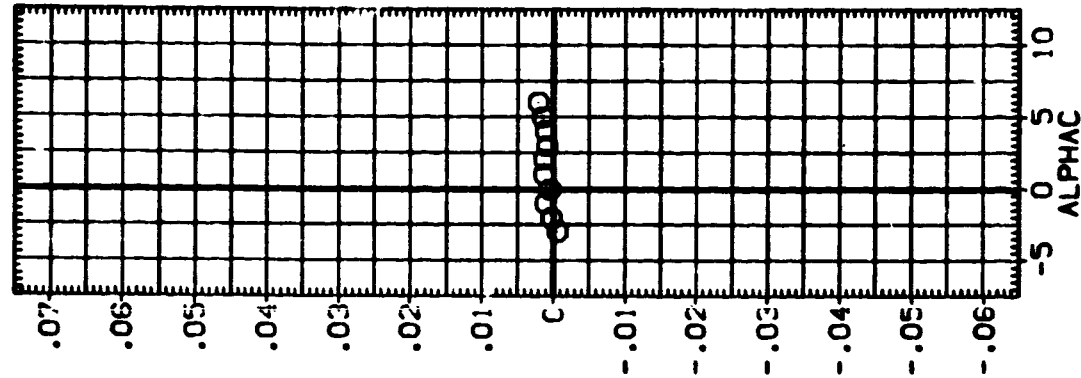
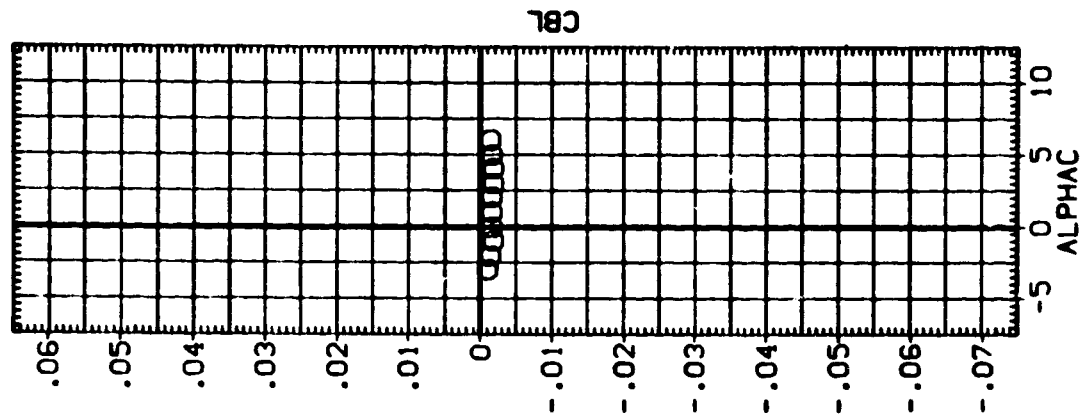
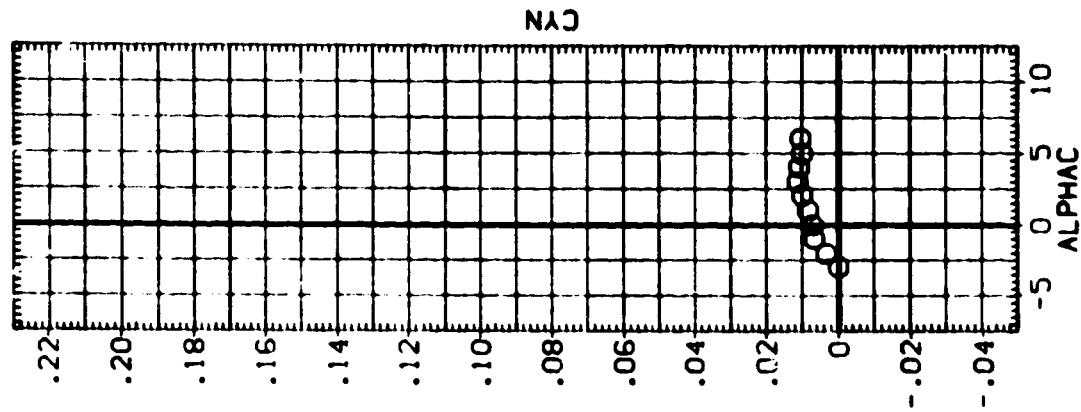


FIG.7 CARRIER ISOLATED AERO CHARACTERISTICS

(A)MACH = .60



DATA SET SYMBOL (BE9820) \bigcirc ARC14-080-1 CA23 747/1 AT1 (CARRIER ISOLATED)

BETAC STAB-C RUD-C
.000 3.000 .000

REFERENCE INFORMATION
SREF 5500.0000 50.FT.
LREF 327.7800 IN.
BREF 2348.0400 IN.
XMRP 1339.9000 IN. MC
YMRP .0000 IN. VC
ZMRP 190.7500 IN. ZC
SCALE .0125

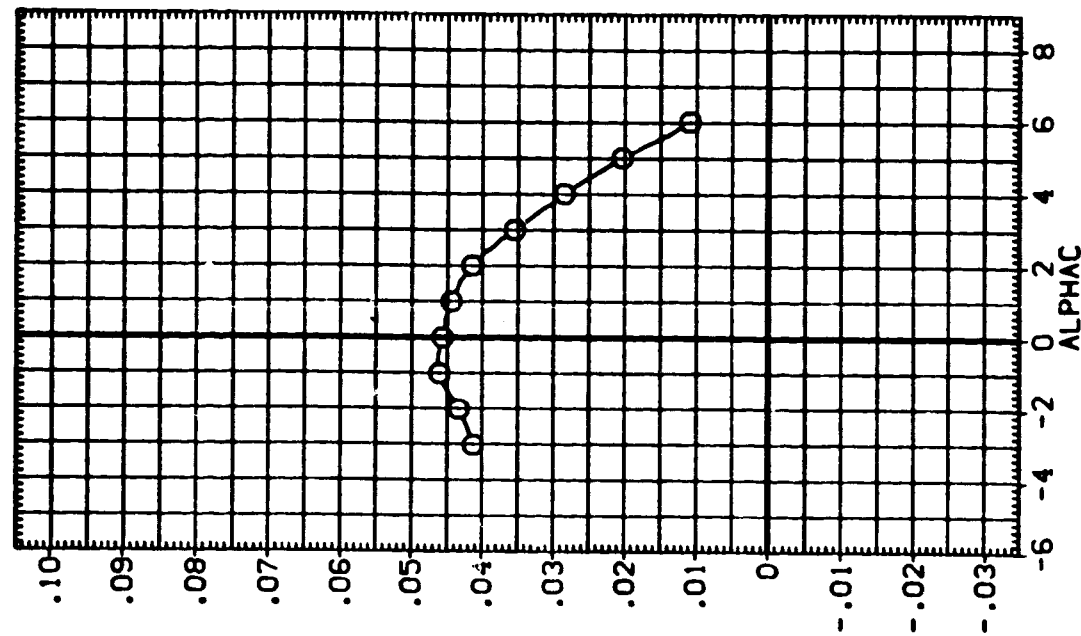
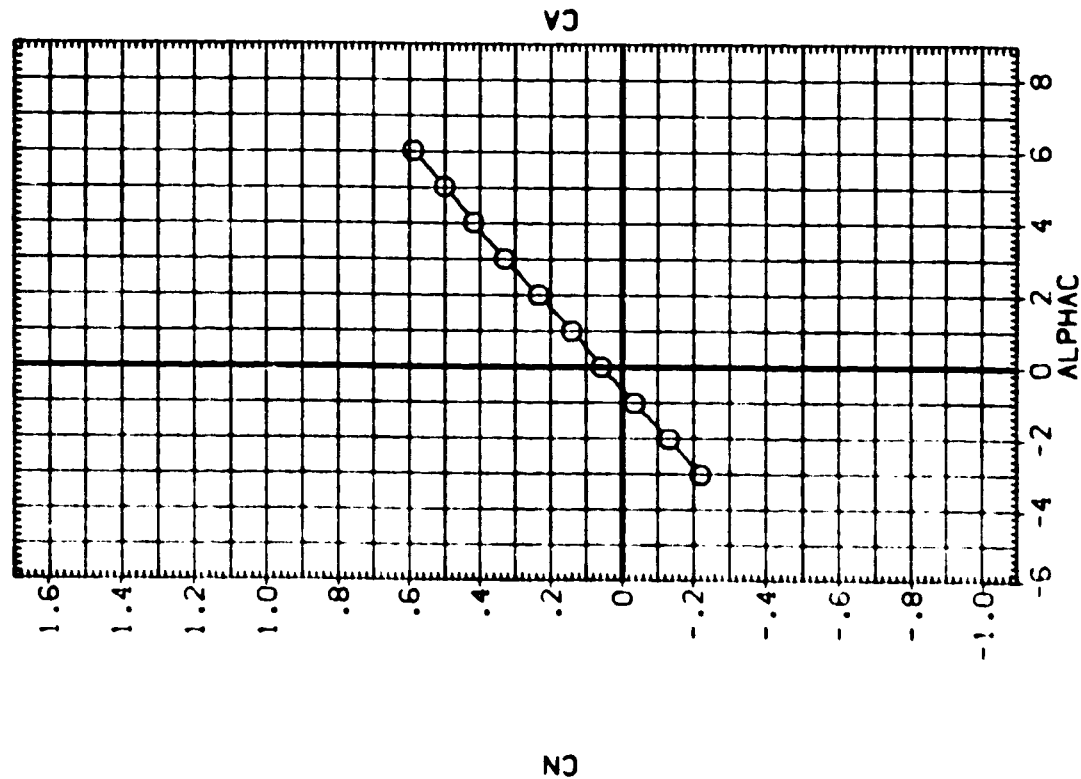


FIG.7 CARRIER ISOLATED AERO CHARACTERISTICS

(A)MACH = .60

DATA SET SYMBOL (BE 9820) ○ CONFIGURATION DESCRIPTION ARC14-080-1 CA23 747/1 AT1 (CARRIER ISOLATED)

BETAC .000 STAB-C 3.000 RUD-C .000

REFERENCE INFORMATION
 SREF 5500.0000 SQ.FT.
 LREF 327.7600 IN.
 BREF 2348.0400 IN.
 XMRP 1339.8000 IN. MC
 YMRP .0000 IN. YC
 ZMRP 190.7500 IN. ZC
 SCALE .0125

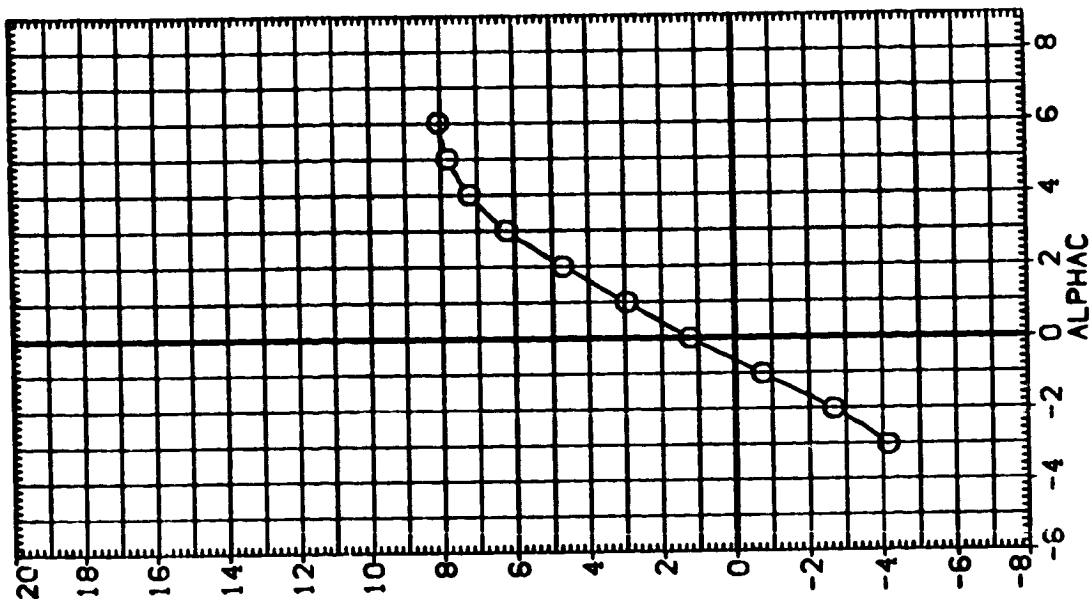
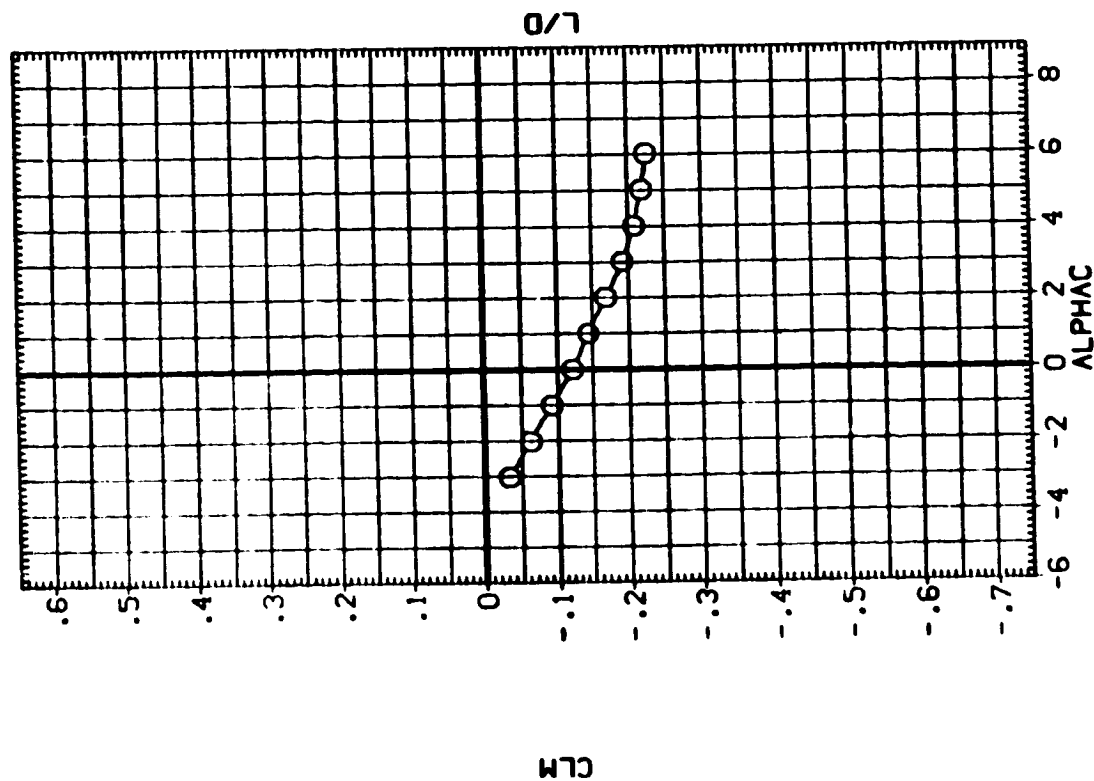


FIG.7 CARRIER ISOLATED AERO CHARACTERISTICS
 (A) MACH = .60

DATA SET SYMBOL (BE9820) ○ CONFIGURATION DESCRIPTION ARC14-080-1 CA23 747/1 AT1 (CARRIER ISOLATED)

BETAC STAB-C RUO-C
.000 3.000 .000

REFERENCE INFORMATION
SREF 5500.0000 90.FT.
LREF 327.7800 IN.
BREF 2348.0400 IN.
XMRP 1338.8000 IN. XC
YMRP 190.7500 IN. YC
ZMRP 190.7500 IN. ZC
SCALE .0125

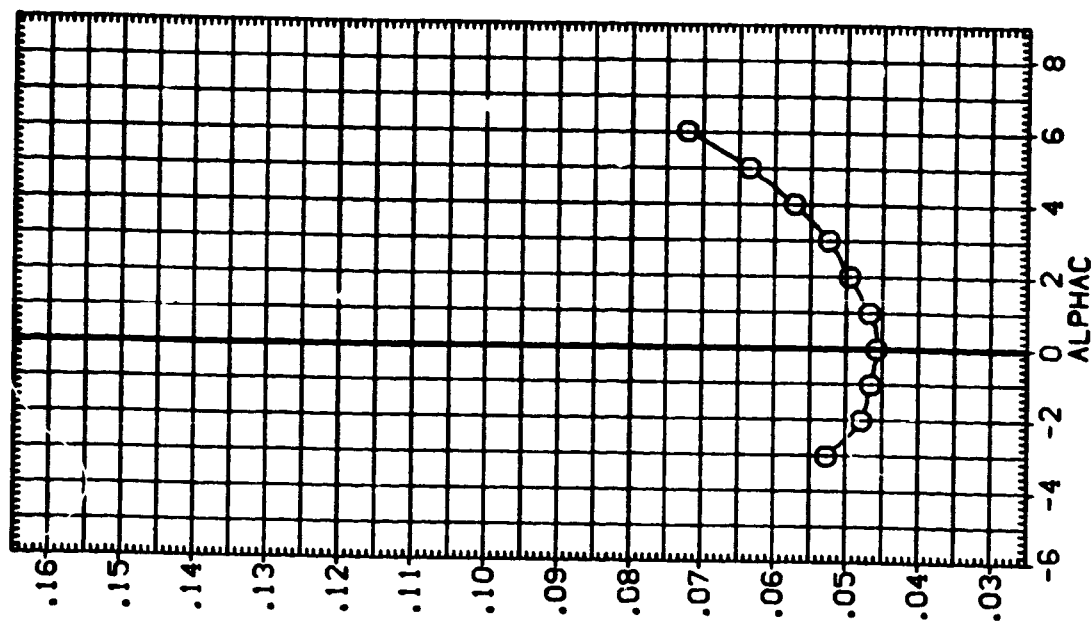
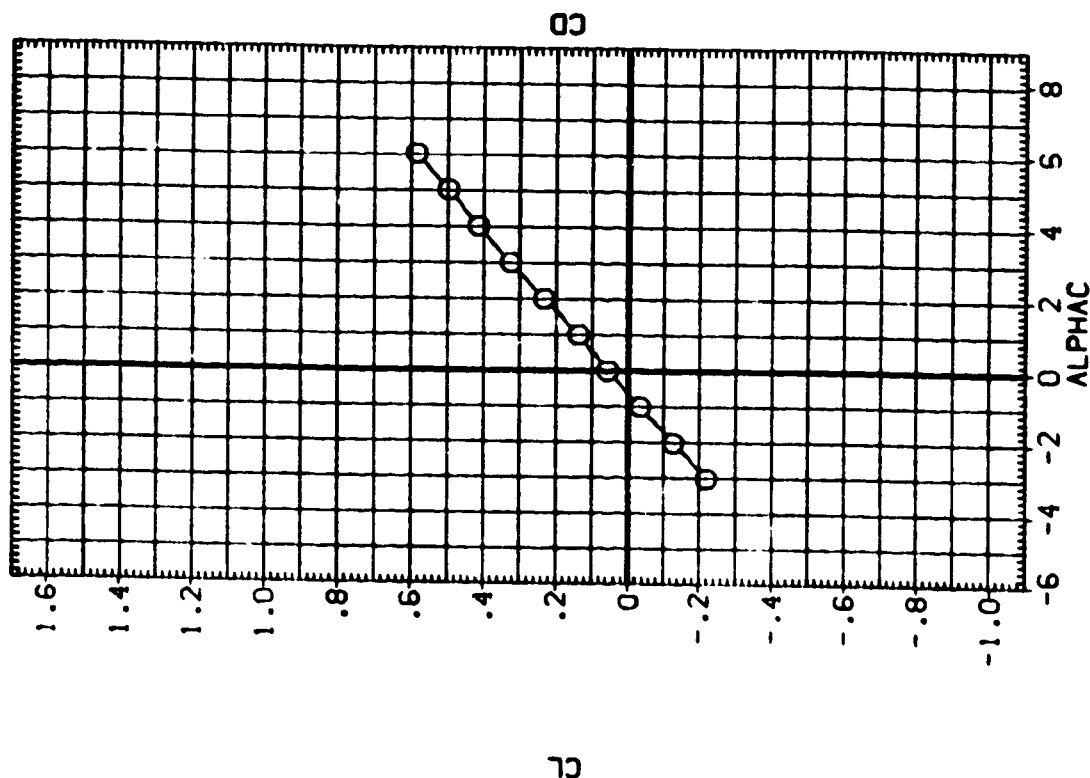


FIG.7 CARRIER ISOLATED AERO CHARACTERISTICS

(A)MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(BES920) O ARC14-080-1 CA23 747/1 AT1 (CARRIER ISOLATED)

BETAC STAB-C RUO-C
.000 3.000 .000

REFERENCE INFORMATION
SREF 5500.0000 SQ.FT.
LREF 327.7800 IN.
BREF 2348.0400 IN.
XREF 1335.8000 IN. MC
YREF .0000 IN. VC
ZREF 180.7500 IN. ZC
SCALE .0125

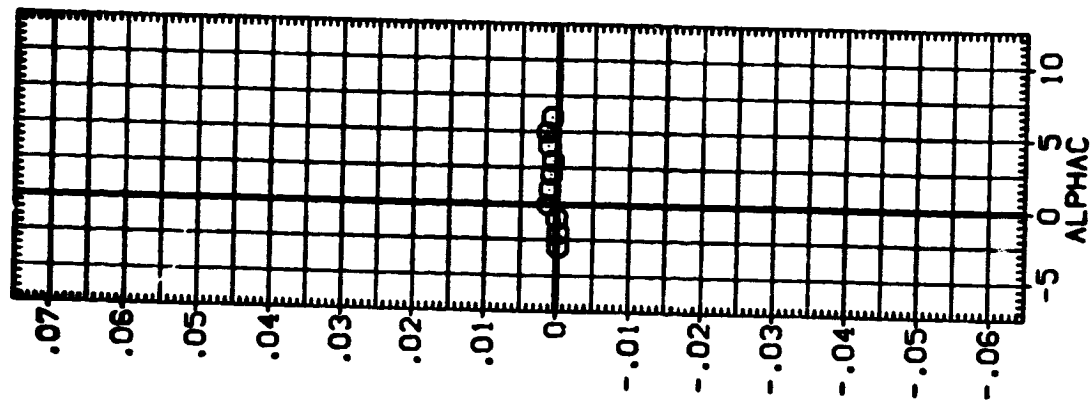
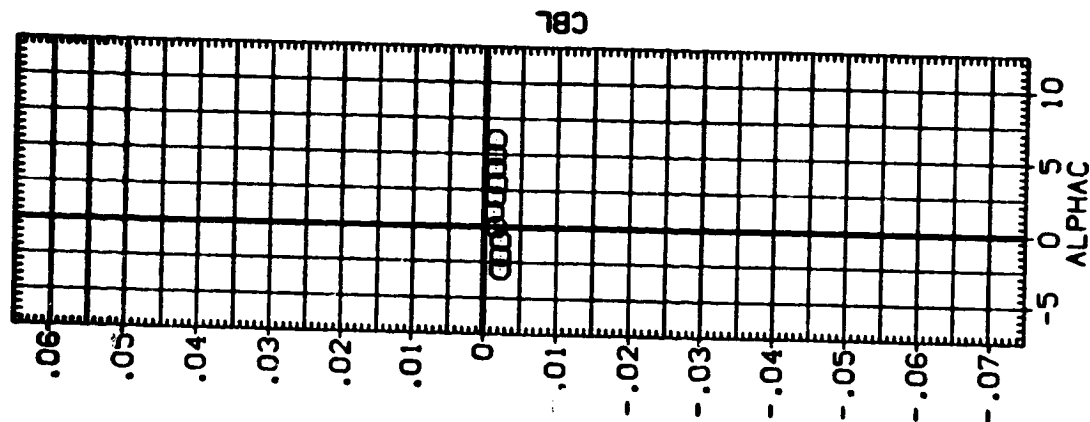
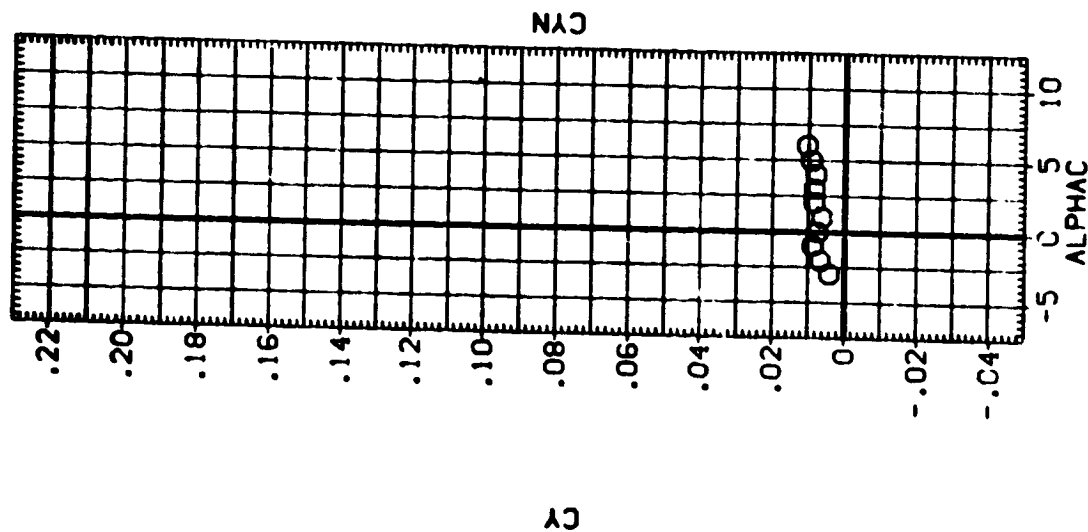


FIG.7 CARRIER ISOLATED AERO CHARACTERISTICS

(A)MACH = .60

REFERENCE INFORMATION
 SREF 5500.0000 90.0 FT.
 LREF 327.7800 IN.
 BREF 2348.0400 IN.
 XMRP 1338.9000 IN.
 YMRP 190.7500 IN.
 ZMRP 190.7500 IN.
 SCALE .0125

BETAC RUD-C
 .000 .000

DATA SET SYMBOL (BES821) ○ CONFIGURATION DESCRIPTION
 ARC14-080-1 CA23 747/1(-M15.8)AT1(CARRIER 150.1)

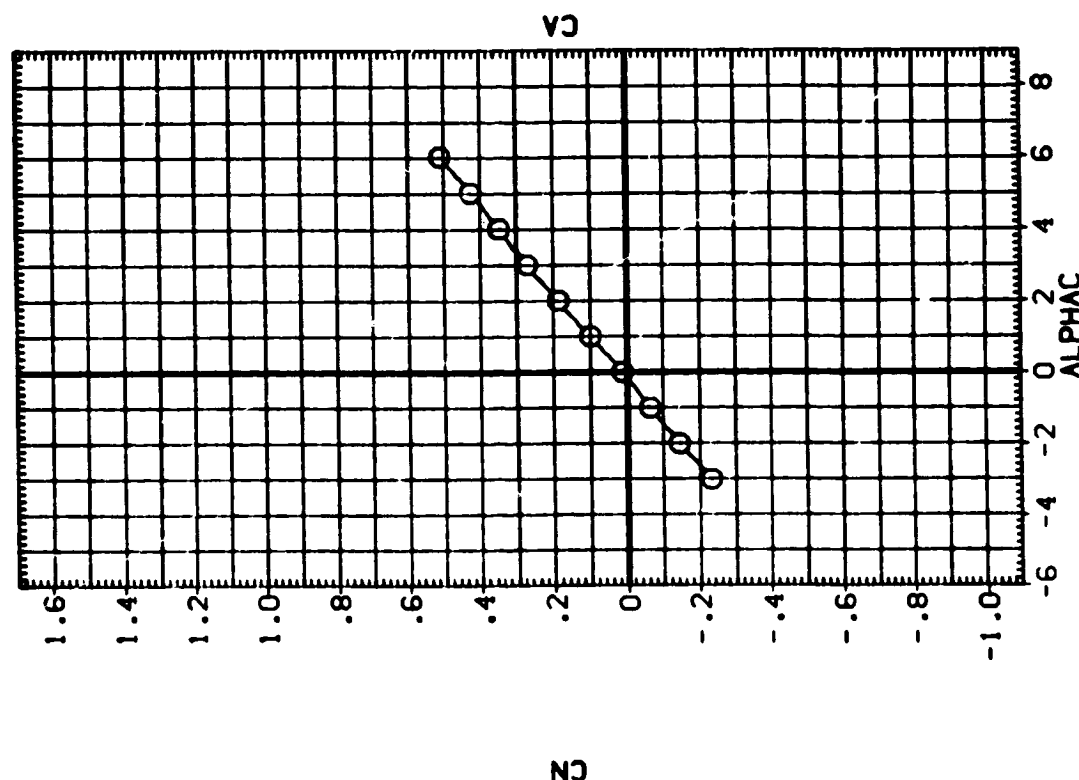
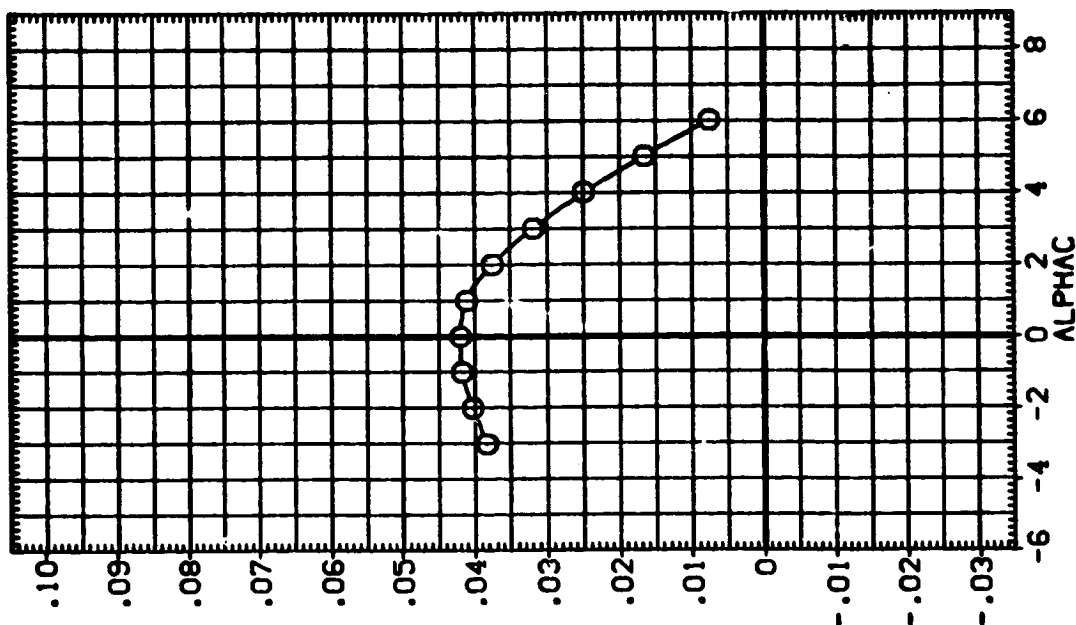


FIG.7 CARRIER ISOLATED AERO CHARACTERISTICS

(M)MACH = .60

REPRODUCIBILITY OF THE
 ORIGINAL PAGE IS POOR

DATA SET SYMBOL (BE9821) \bigcirc ARC:4-080-1 CA23 747/1(-HIS.6)ATICARRIER ISOL.)

BETAC RUD-C .000

REFERENCE INFORMATION
 BREF 5900.0000 90.FT.
 LREF 327.7800 IN.
 BREF 2348.0400 IN.
 YPROP 1339.5000 IN. VC
 ZPROP 190.7500 IN. ZC
 SCALE .0125

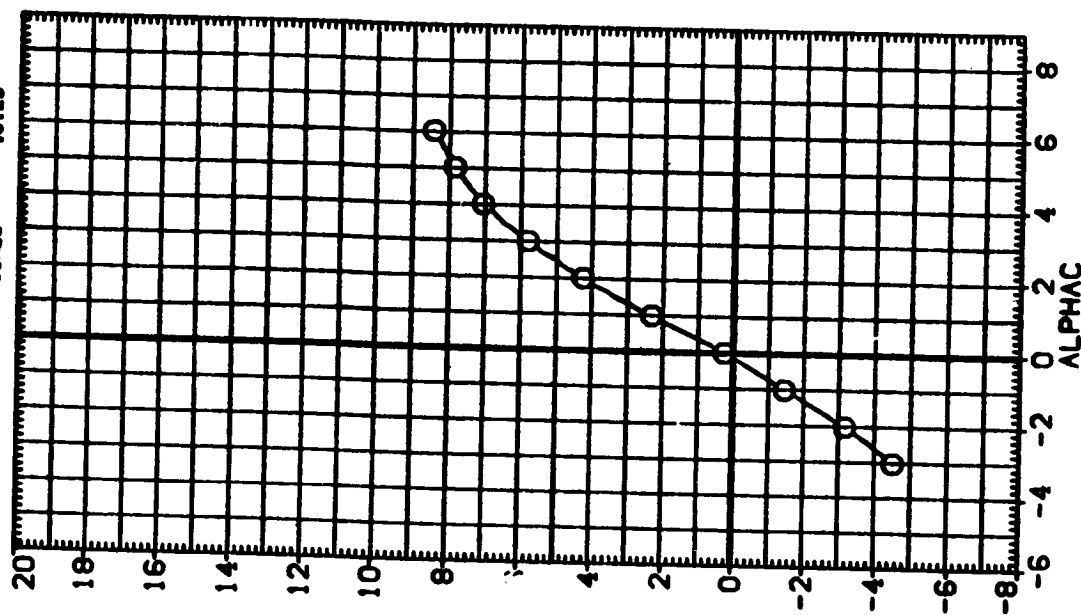
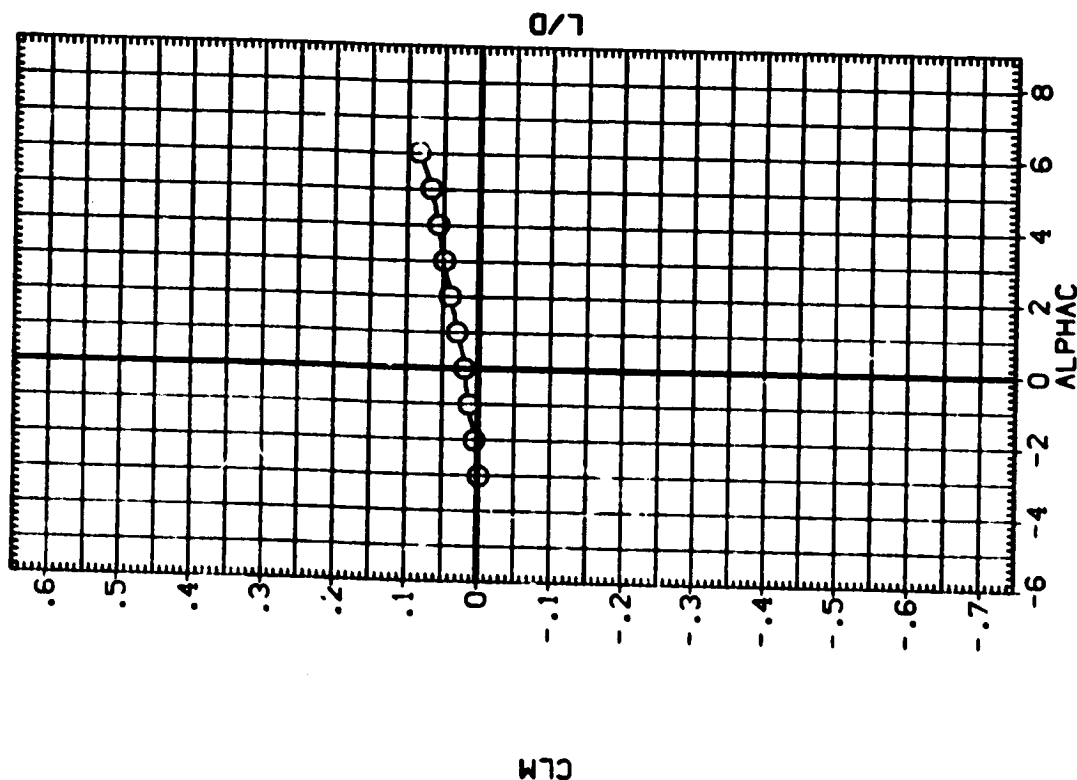


FIG.7 CARRIER ISOLATED AERO CHARACTERISTICS

(A)MACH = .60

DATA SET SYMBOL (DE9821) ○ ARC14-080-1 CA23 747/1(-H15.6)ATICARRIER 180L.)

BETAC .000
RUD-C .000

REFERENCE INFORMATION
SREF 9500.0000 90.FT.
LREF 327.7800 IN.
BREF 2348.0400 IN. XC
XREF 1338.5000 IN. VC
YREF 180.7500 IN. ZC
SCALE .0125

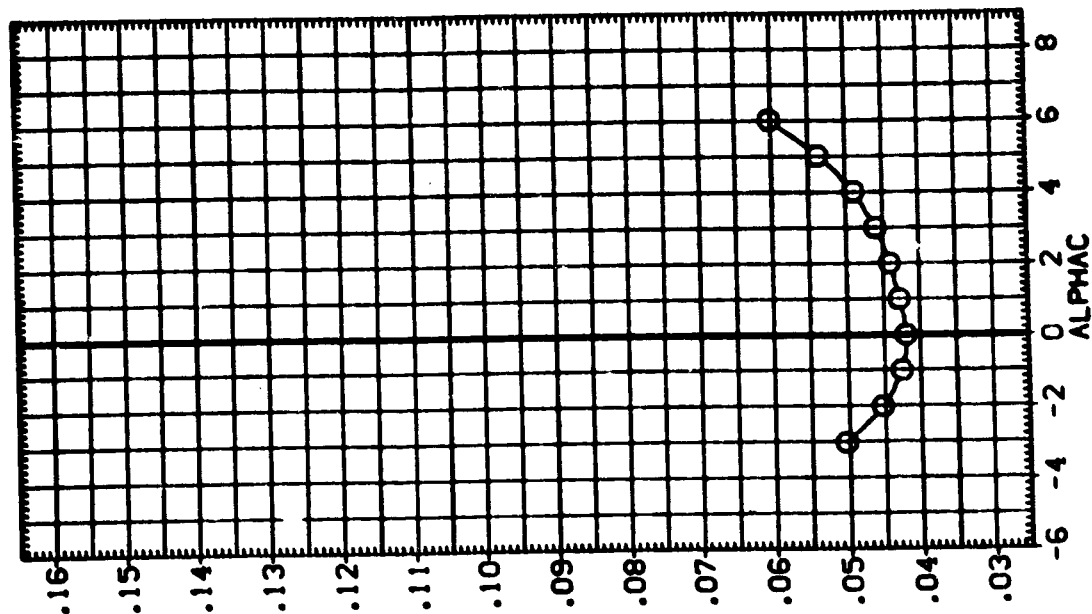
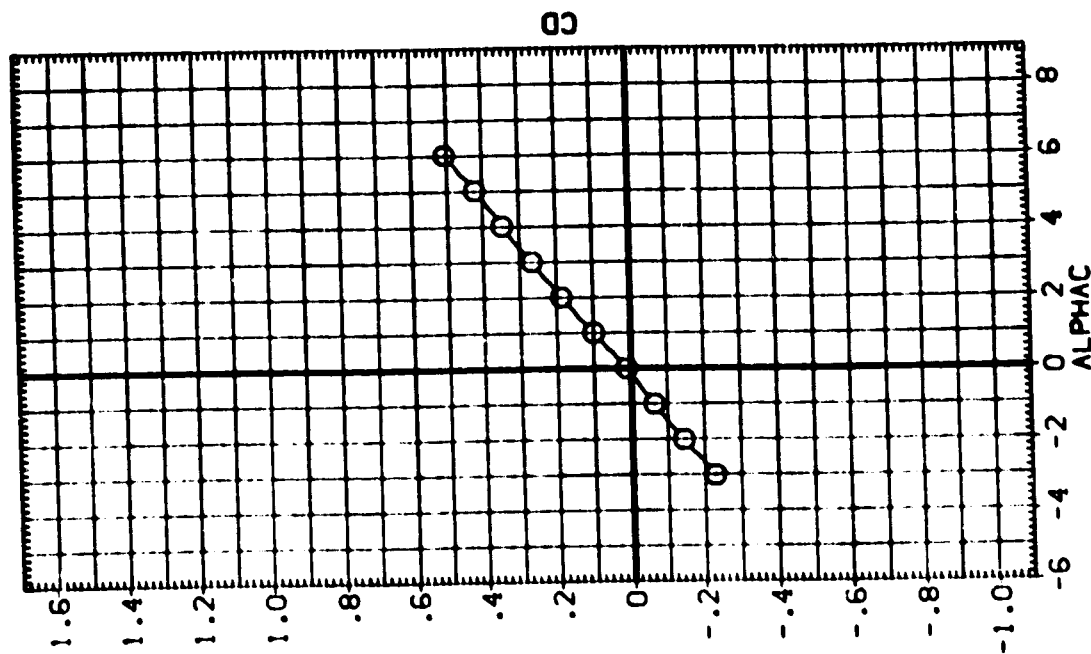


FIG.7 CARRIER ISOLATED AERO CHARACTERISTICS

(A)MACH = .60

DATA SE: SYMBOL CONFIGURATION DESCRIPTION METAC RUD-C

(9E9821) APC14-080-1 CA23 747/(-H15.6)AT:(CARRIER ISOL.) .000 .000

REFERENCE INFORMATION

SREF	5500.0000	50.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
YMRP	1325.5000	IN. YC
ZMRP	190.7500	IN. ZC
SCALE	.0125	

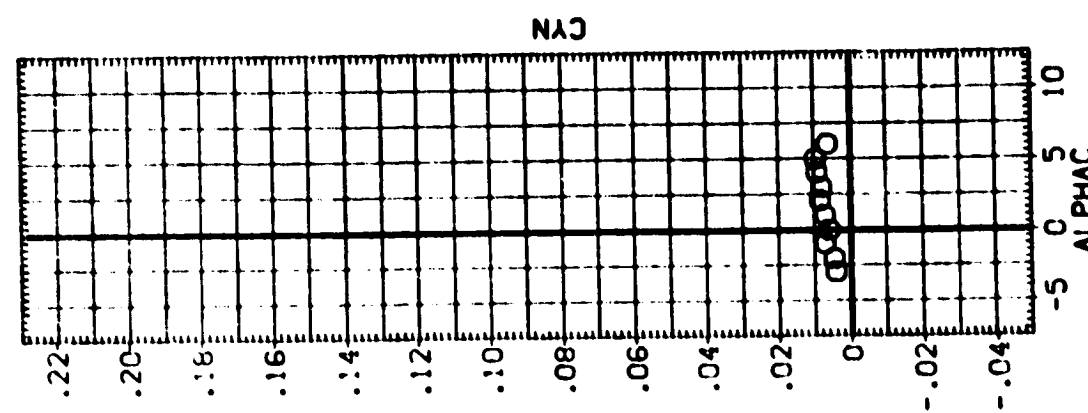
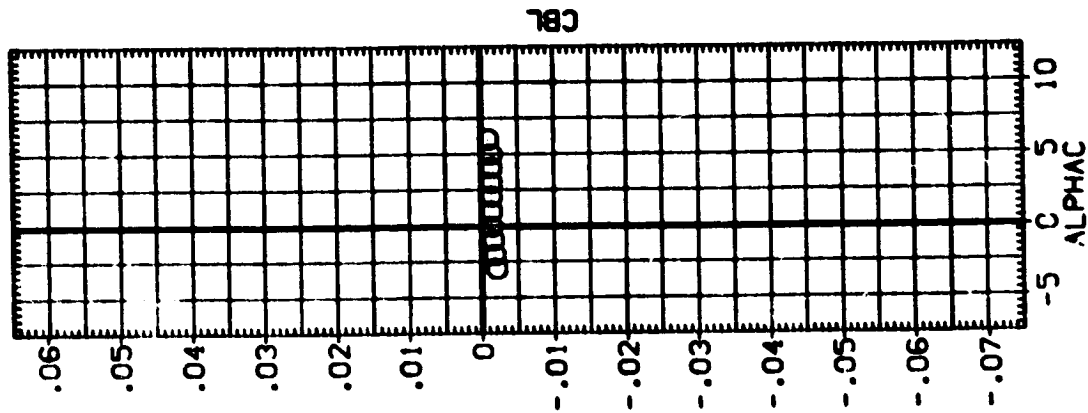
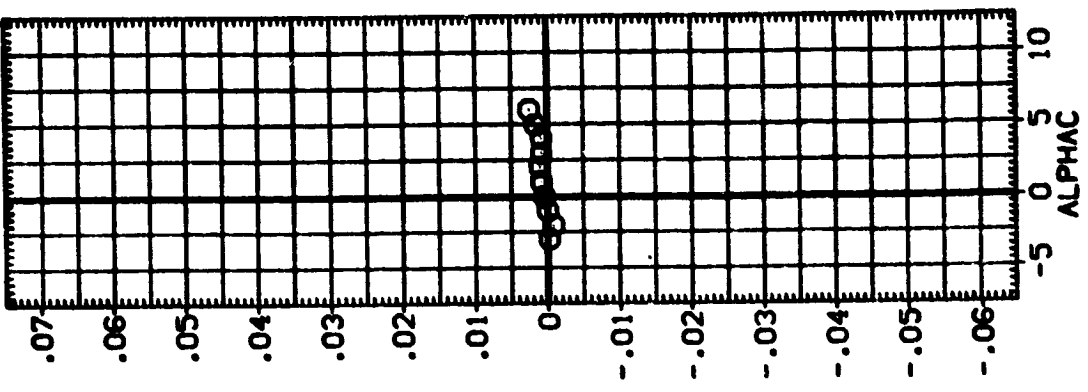


FIG.7 CARRIER ISOLATED AERO CHARACTERISTICS

(A)MACH = .60



DATA SET SYMBOL CONFIGURATION DESCRIPTION
(CES009) O ARC14-080-1 CA23 747/1 AT1 (CARRIER ISOLATED)

NETAC STAB-C RLO-C
-5.000 5.000 .000

REFERENCE INFORMATION
SREF 5500.0000 99.51.
LREF 327.7500 IN.
BREF 2246.0400 IN.
XREF 1328.8000 IN.
YREF 180.7500 IN.
ZREF 180.7500 IN.
SCALE .0125

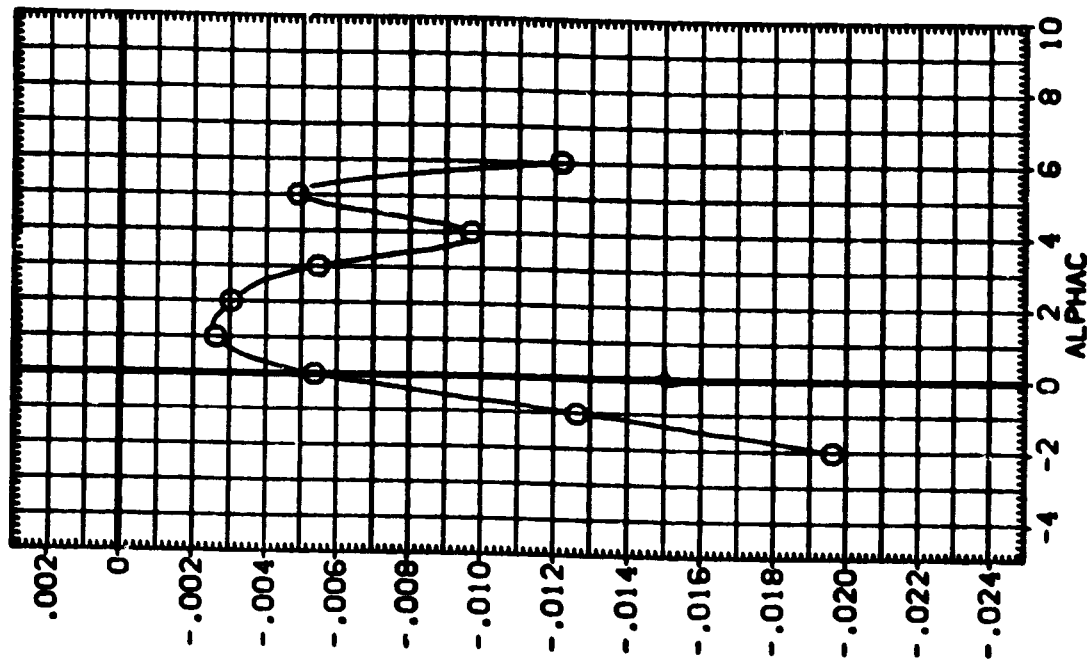
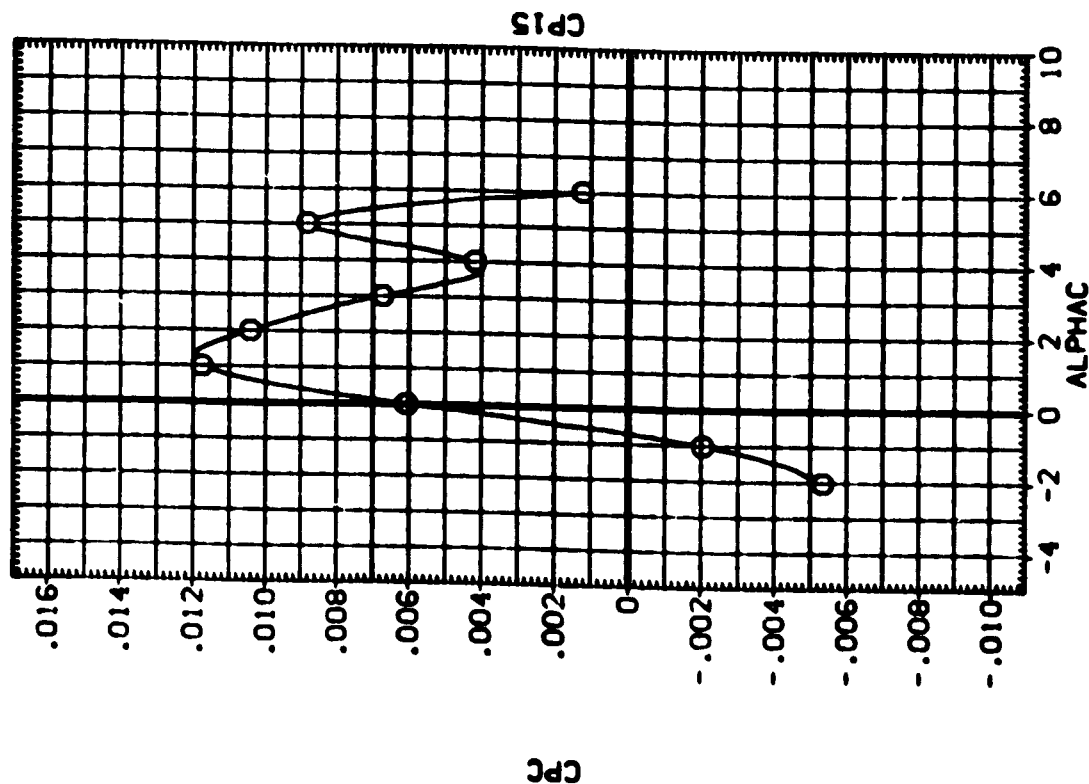


FIG.8 CARRIER ISOLATED BASE AND CAVITY PRESSURES

(A)MACH = .60

DATA SET SYMBOL: (CES809) \circ CONFIGURATION DESCRIPTION: ARC14-080-1 CA23 747/1 AT1 (CARRIER ISOLATED)

BETAC STAB-C RUO-C
-5.000 5.000 .000

REFERENCE INFORMATION
SREF 5500.0000 90.FT.
LREF 327.7800 IN.
BREF 2348.0400 IN. MC
XREF 1338.8000 IN. VC
YREF .0000 IN.
ZREF 190.7500 IN. ZC
SCALE .0125

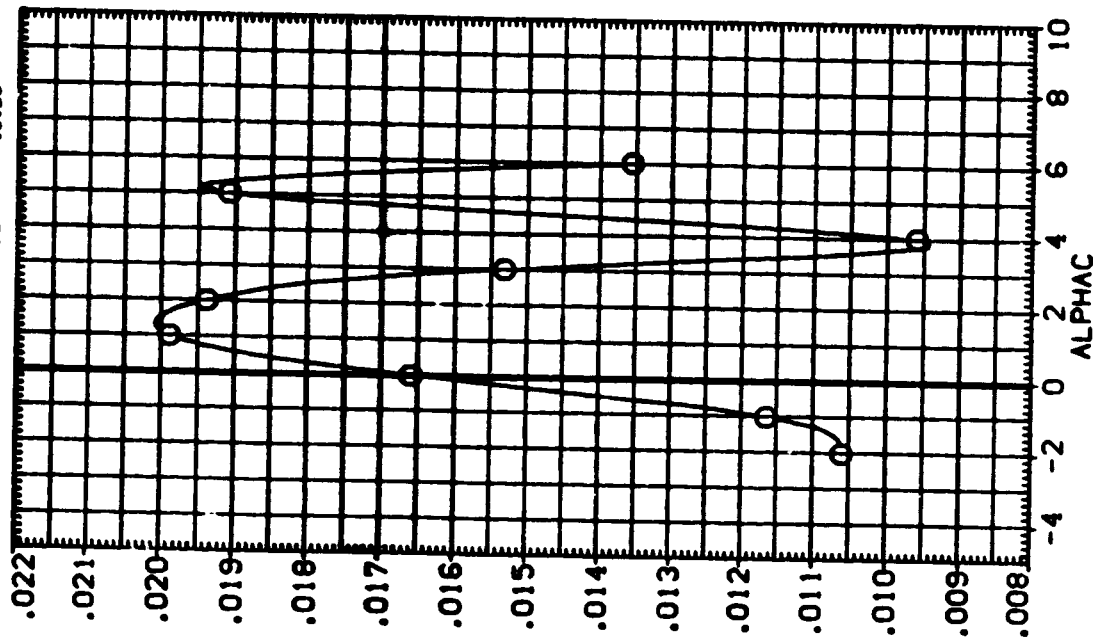
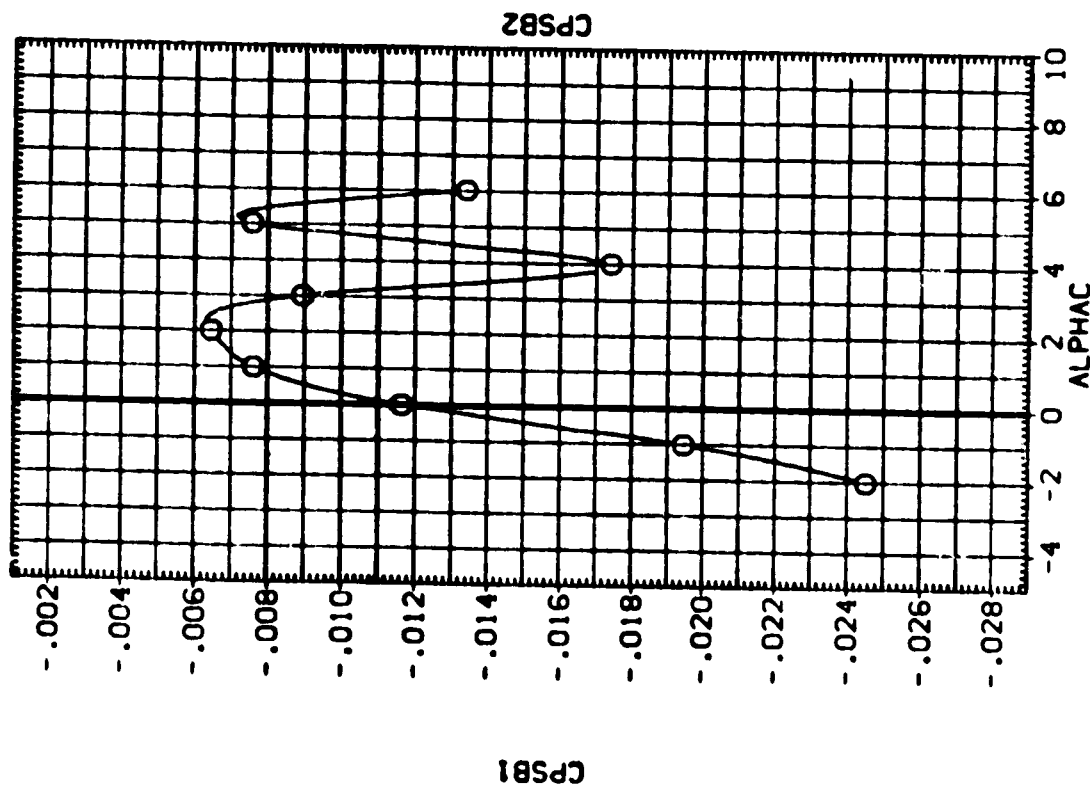


FIG.8 CARRIER ISOLATED BASE AND CAVITY PRESSURES

(1) MACH = .60



DATA SET SYMBOL CONFIGURATION DESCRIPTION
(CE9809) ○ ARC:0-080-1 CA23 747/1 AT1 (CARRIER ISOLATED)

BETAC STAB-C RLO-C
-5.000 5.000 .000

REFERENCE INFORMATION
SREF 2500.0000 90.FT.
LREF 377.7800 IN.
BREF 2348.0400 IN.
XREF 1338.5000 IN. MC
YREF .0000 IN. VC
ZREF 190.7500 IN. ZC
SCALE .0125

747 TOP AFT STING CAVITY EXIT PRESSURE COEFFICIENT, CP14

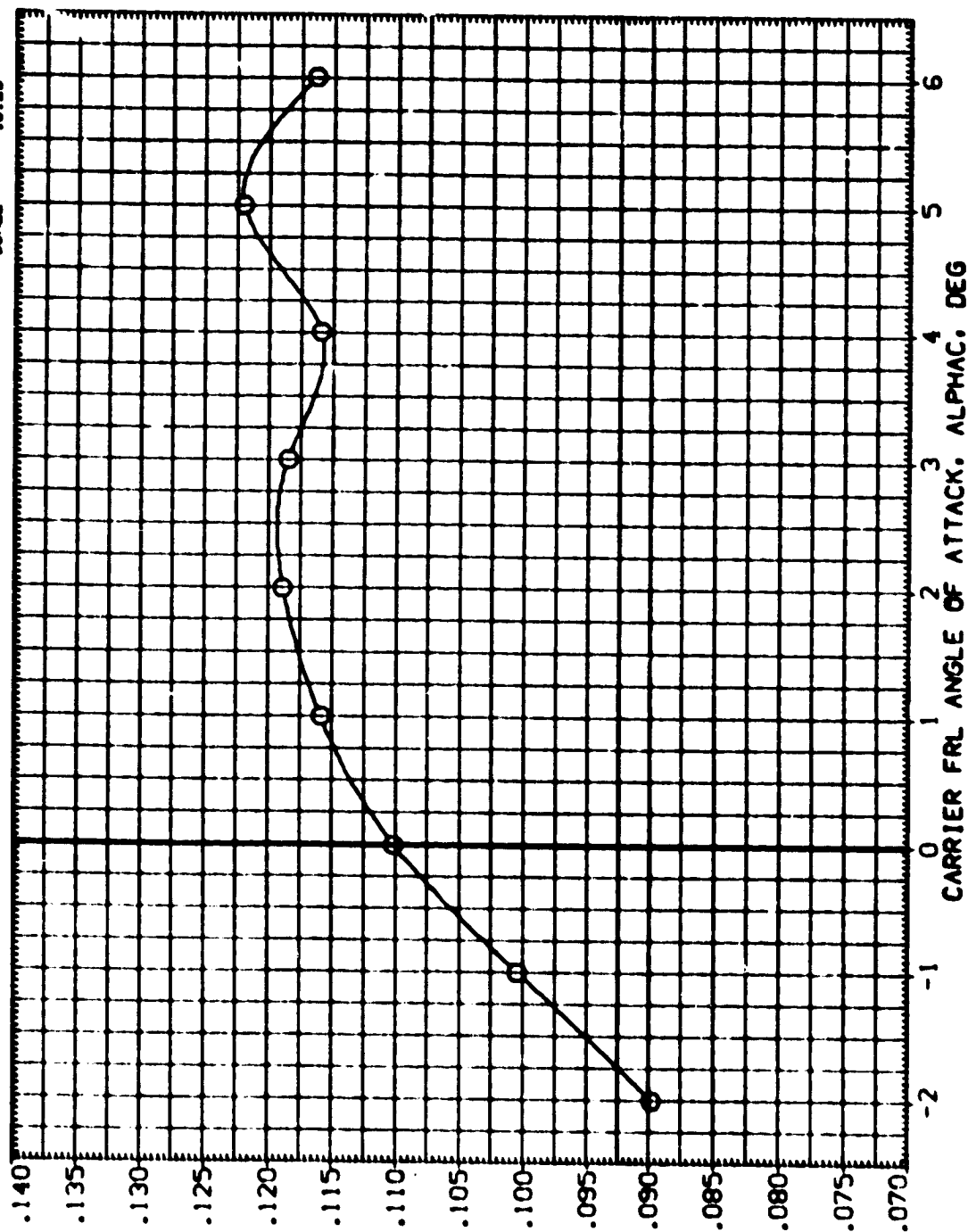


FIG.8 CARRIER ISOLATED BASE AND CAVITY PRESSURES

(A)MACH = .60

DATA SET SYMBOL (CES809) ○

CONFIGURATION DESCRIPTION ARC14-080-1 CA23 747/1 AT1 (CARRIER ISOLATED)

REFERENCE INFORMATION

REF	3500.0000	90.FT.
REF	327.7800	IN.
REF	2348.0400	IN.
REF	1338.5000	IN.
REF	.0000	IN.
REF	180.7300	IN.
SCALE	.0125	

BETAC STAB-C RUD-C

-5.000 5.000 .000

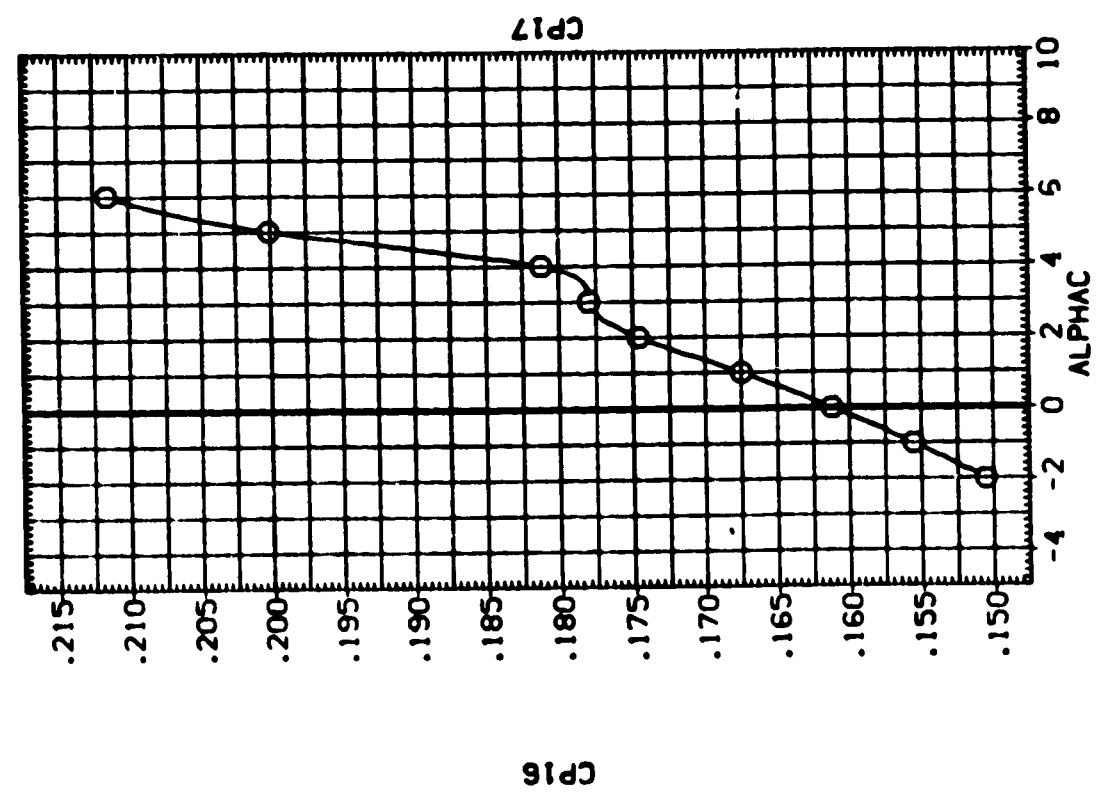
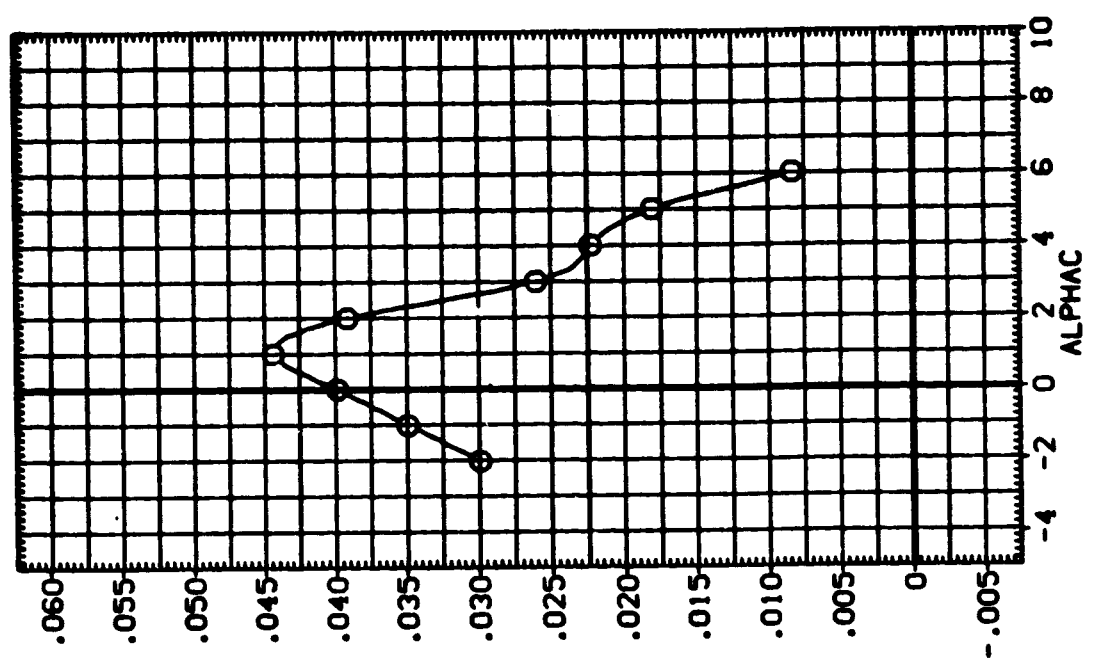


FIG.8 CARRIER ISOLATED BASE AND CAVITY PRESSURES

(A)MACH = .60

DATA SET SYMBOL (CES910) \bigcirc ARC14-080-1 CA23 747/2 (CARRIER ISOLATED)
 REFERENCE INFORMATION
 SREF 5500.0000 90.5 FT.
 LREF 327.7800 IN.
 BREF 2348.0400 IN.
 XREF 1338.8000 IN.
 YREF 190.7500 IN.
 ZREF 190.7500 IN.
 SCALE .0125

BETAC -5.000 STAB-C 5.000 RUO-C .000

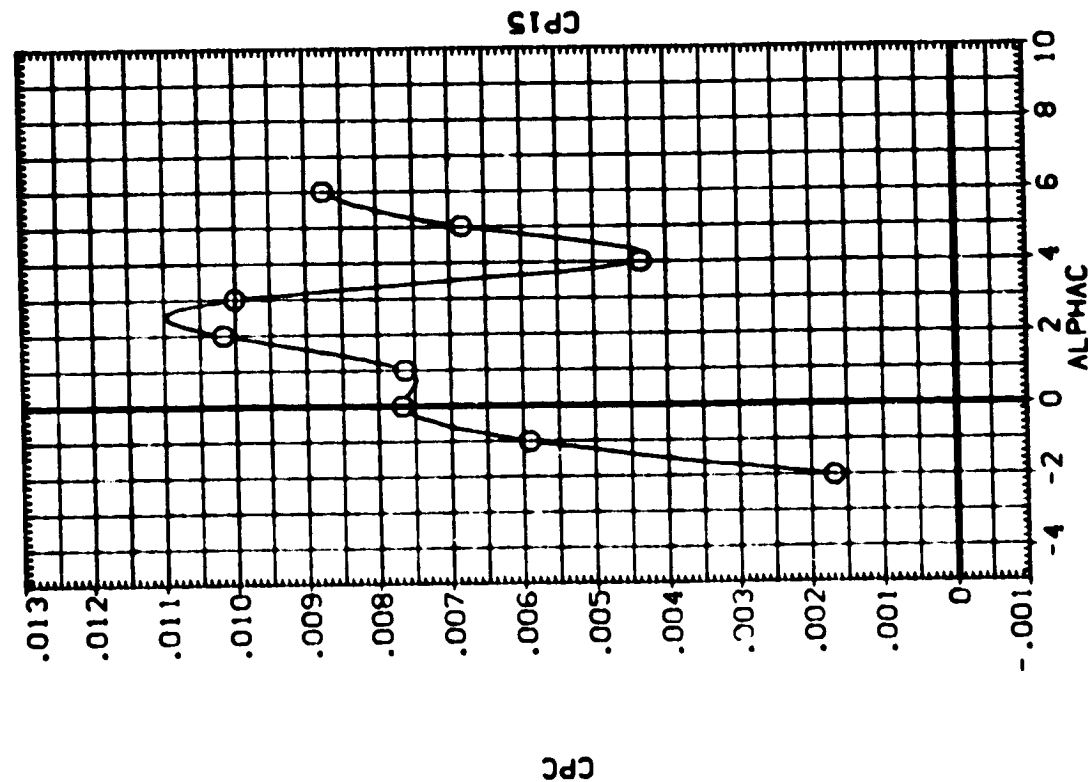
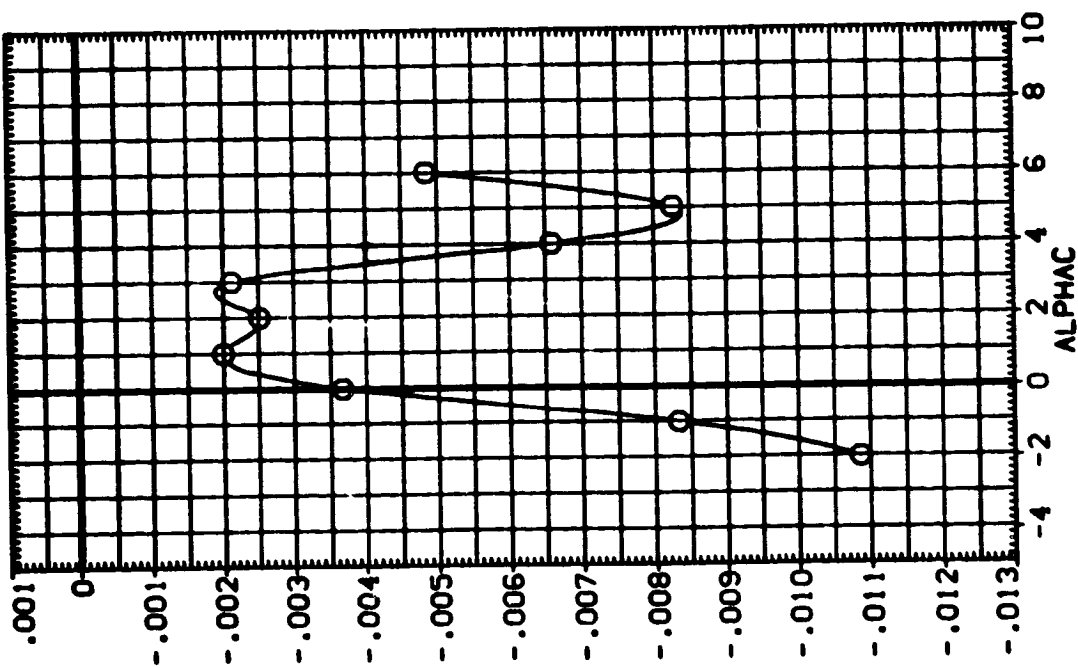


FIG.8 CARRIER ISOLATED BASE AND CAVITY PRESSURES

(A) MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(CES810) ○ ARC14-080-1 CA23 747/2 (CARRIER ISOLATED)

BETAC STAB-C RUO-C
-5.000 5.000 .000

REFERENCE INFORMATION
SREF 2500.0000 50.000
LREF 327.7500 IN.
BREF 2349.0400 IN.
XREF 1330.0000 IN.
YREF 190.7500 IN.
ZREF 190.7500 IN.
SCALE .0125

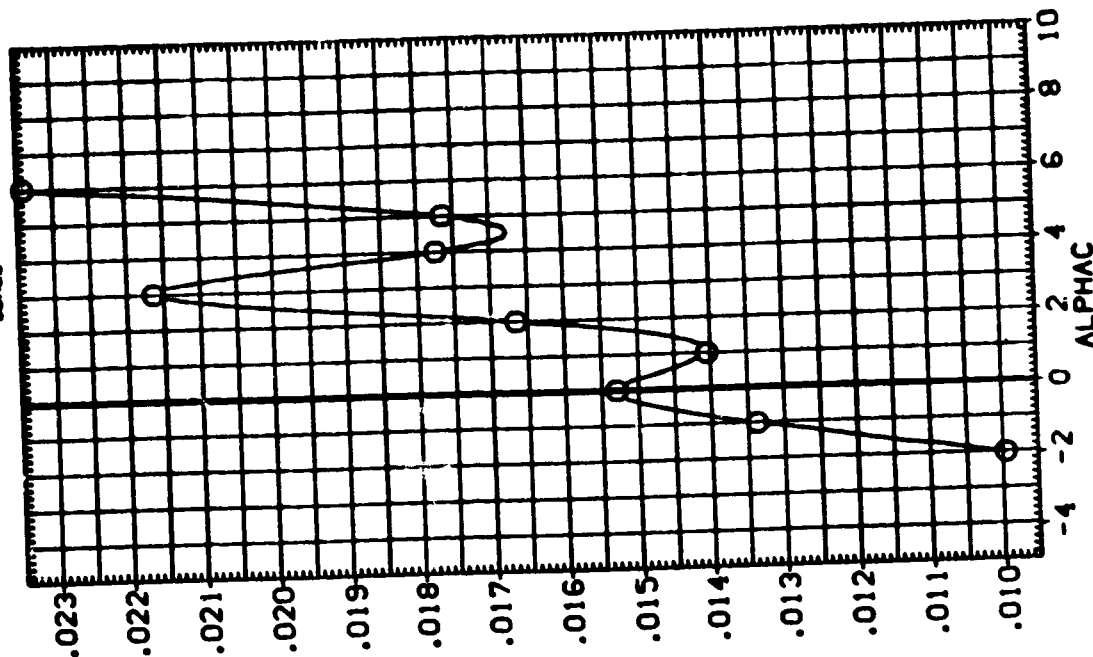
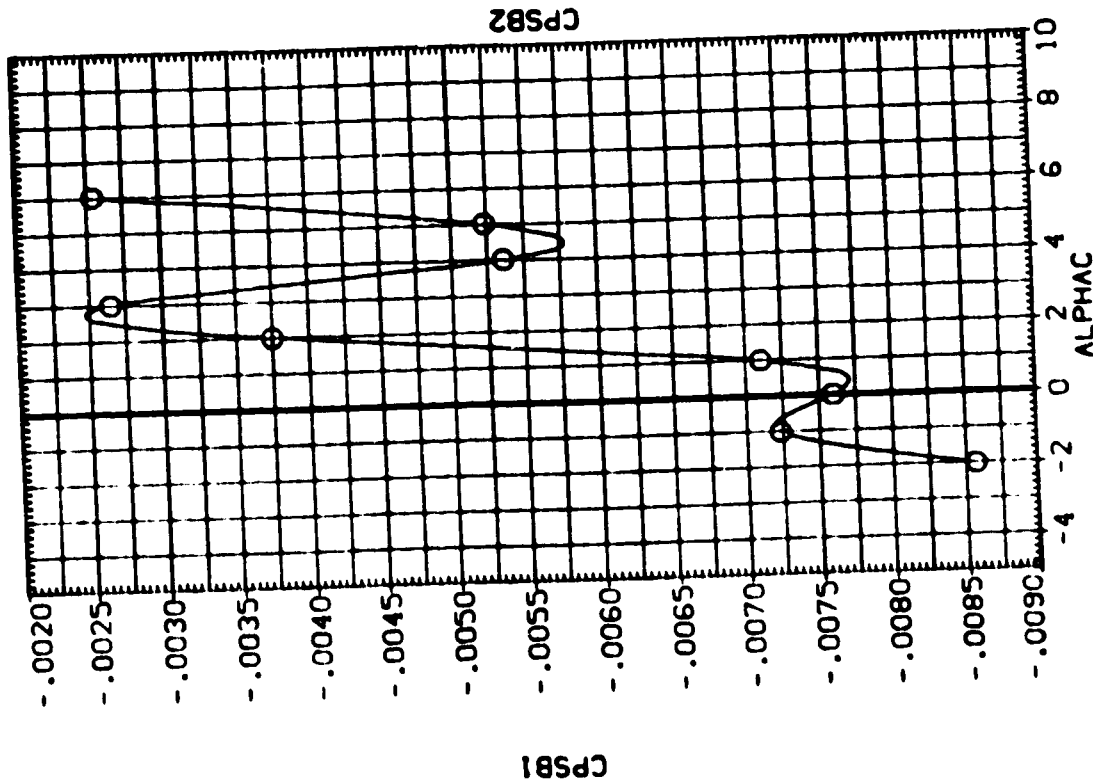


FIG.8 CARRIER ISOLATED BASE AND CAVITY PRESSURES

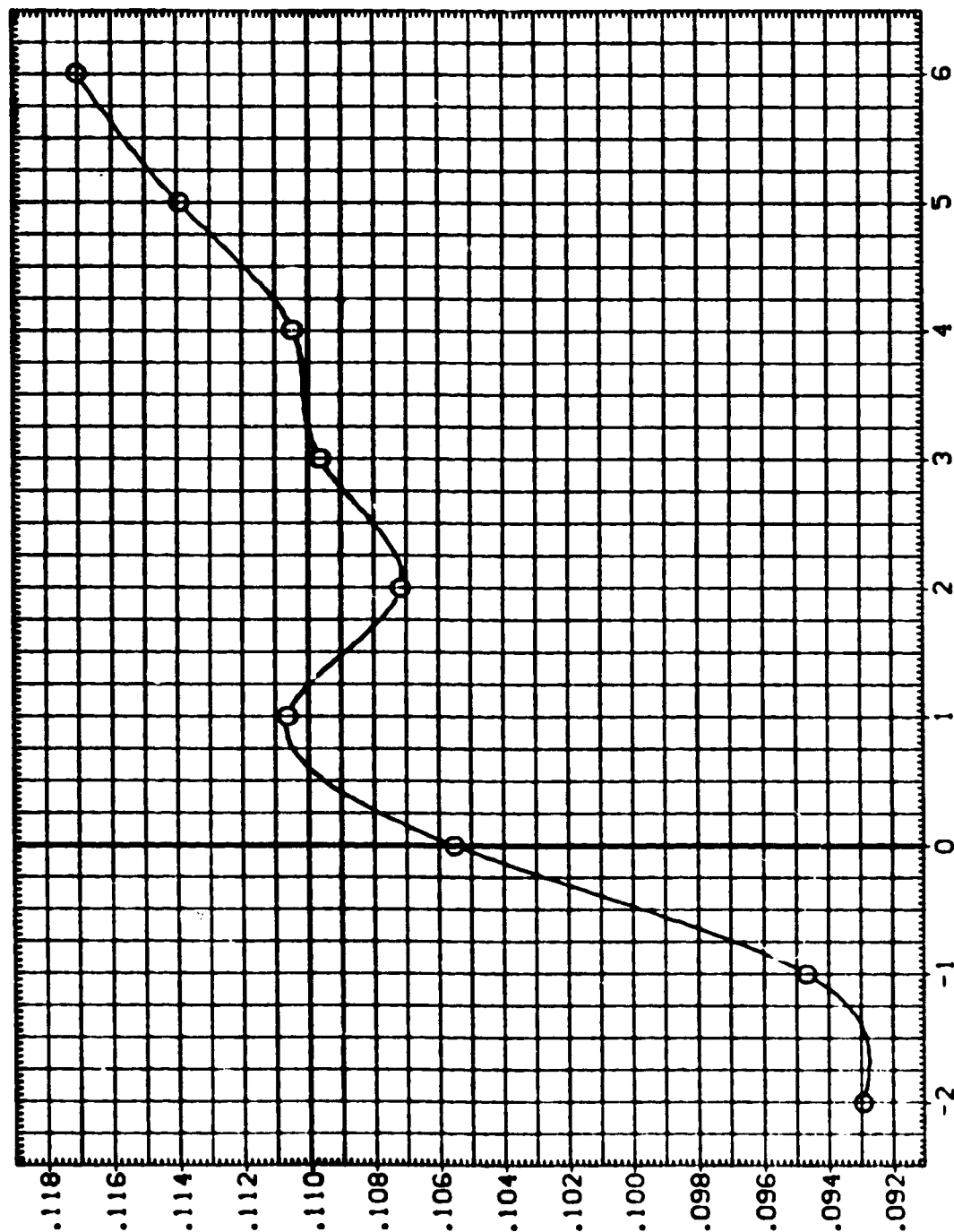
(A)MACH = .60



REFERENCE INFORMATION
 ORG 5000.0000 98.47.
 LAY 127.7500 IN.
 SAMP 2348.0400 IN.
 WIND 1338.8000 IN.
 TEMP .0000 IN.
 ZWSP 190.7500 IN.
 SCALE .0125

METAC STAB-C RAD-C
 -8.000 9.000 .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (CE8810) O ARC14-080-1 CA23 747/2 (CARRIER ISOLATED)



747 TOP AFT SLING CAVITY EXIT PRESSURE COEFFICIENT, CP14

FIG.8 CARRIER ISOLATED BASE AND CAVITY PRESSURES

(A)MACH = .60

DATA SET SYMBOL (CES810) ○ CONFIGURATION DESCRIPTION ARC14-080-1 CA23 747/2 (CARRIER ISOLATED)

DETAC STAB-C RUJ-C
-5.000 5.000 .000

REFERENCE INFORMATION
SREF 5500.0000 SQ.FT.
LREF 327.7800 IN.
BREF 2348.0400 IN.
XWRP 1338.5000 IN.
YWRP .0000 IN.
ZWRP 180.7500 IN.
SCALE .0125

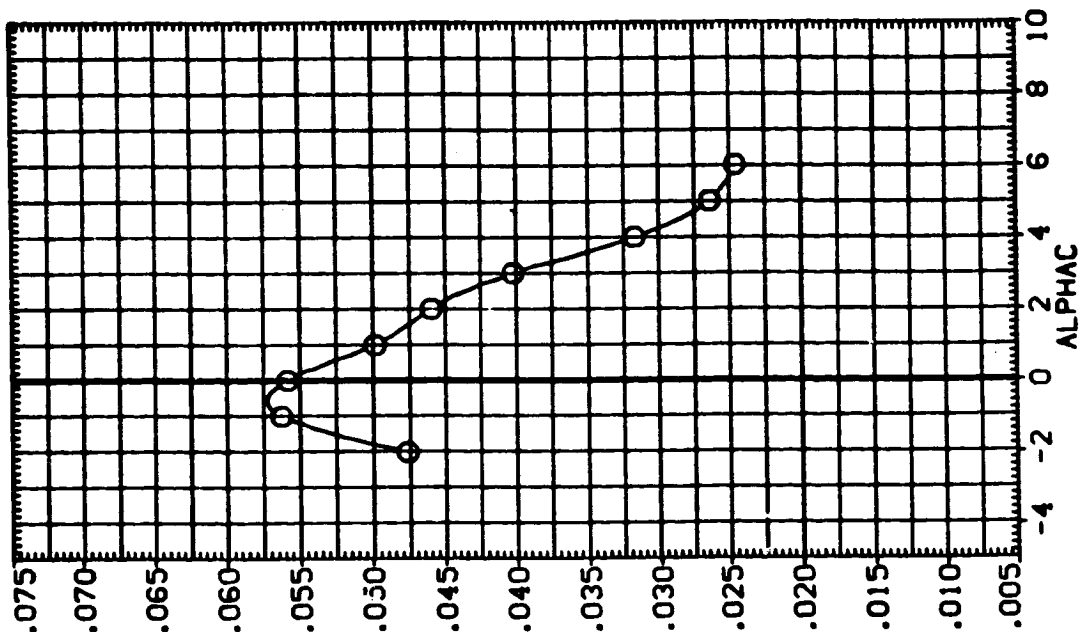
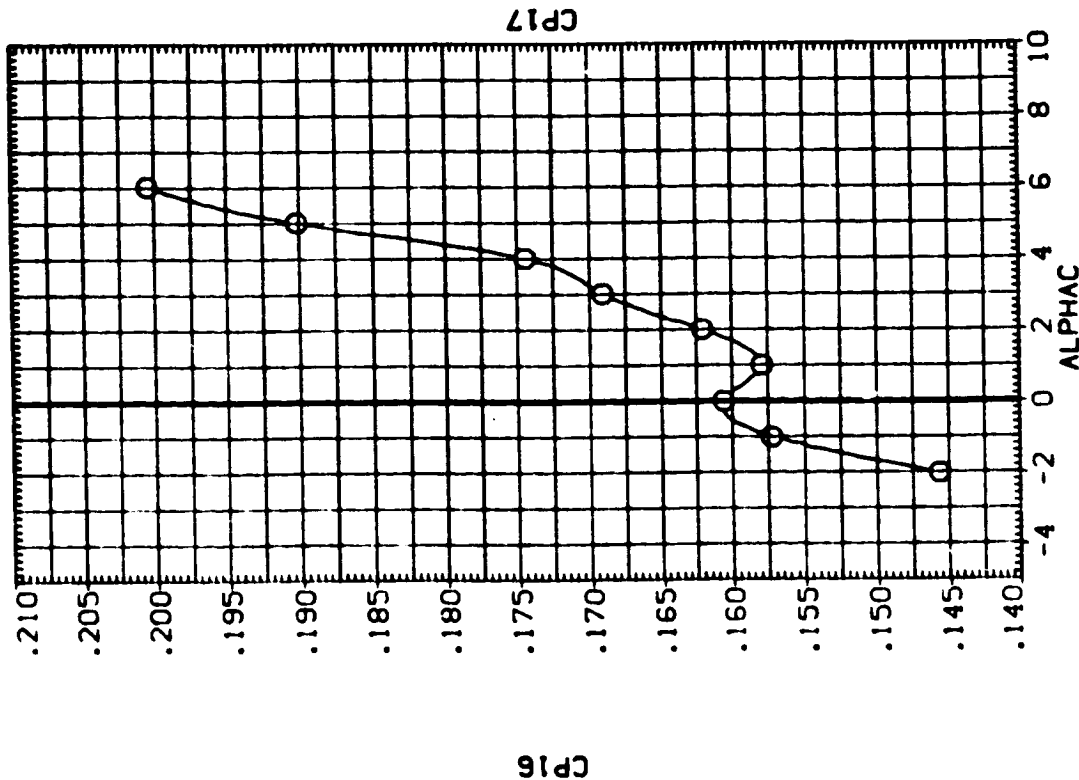


FIG.8 CARRIER ISOLATED BASE AND CAVITY PRESSURES

(A)MACH = .60



DATA SET SYMBOL (C9811) \bigcirc CONFIGURATION DESCRIPTION ARC14-080-1 CA23 747/3 (CARRIER ISOLATED)

BETAC STAB-C RUO-C
-5.000 1.000 .000

REFERENCE INFORMATION
SREF 9500.0000 80.FT.
LREF 327.7600 IN.
BREF 2348.0400 IN.
XREF 1338.8000 IN.
YREF 180.7500 IN.
ZREF 180.7500 IN.
SCALE .0125

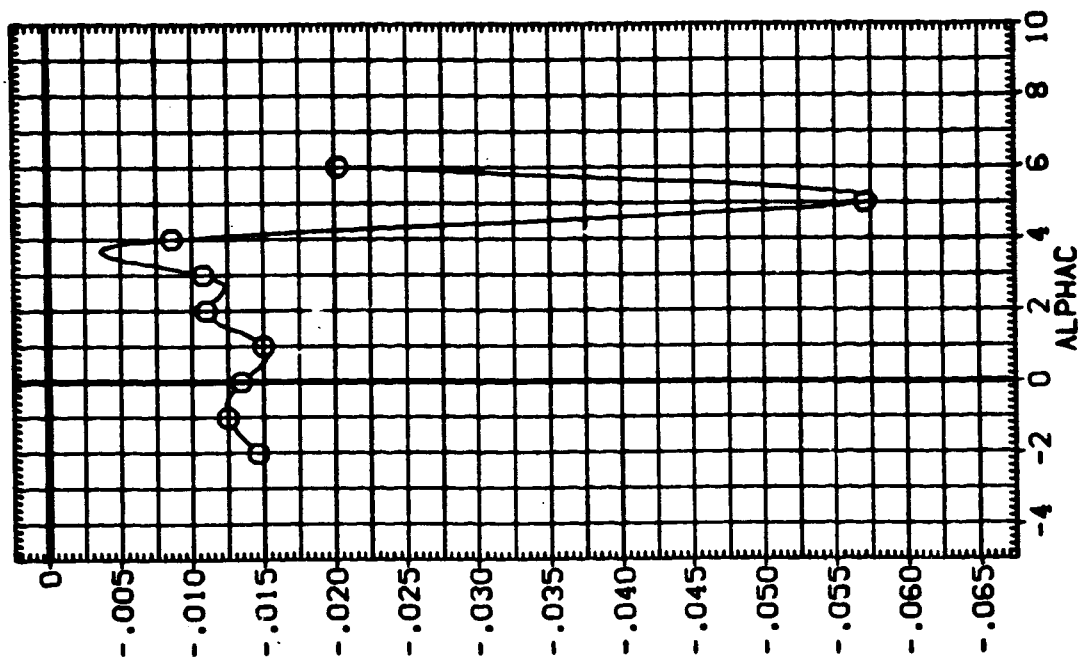
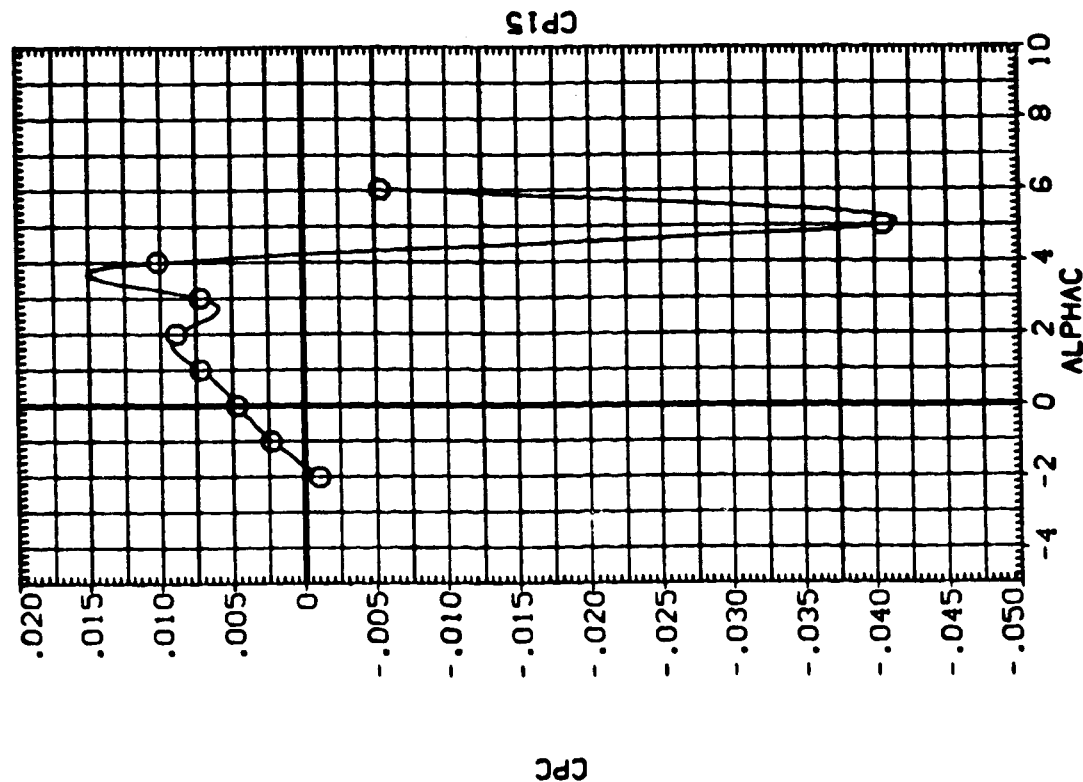


FIG.8 CARRIER ISOLATED BASE AND CAVITY PRESSURES

(A)MACH = .60

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR

DATA SET SYMBOL (CE9811) \bigcirc ARC14-080-1 CA23 747/3 (CARRIER ISOLATED)

BETAC STAB-C RUD-C
-5.000 1.000 .000

REFERENCE INFORMATION
SREF 5500.0000 50. FT.
LREF 377.7000 IN.
BREF 2348.0400 IN.
XTRP 1338.8000 IN. XC
YTRP .0000 IN. YC
ZTRP 190.7500 IN. ZC
SCALE .0125

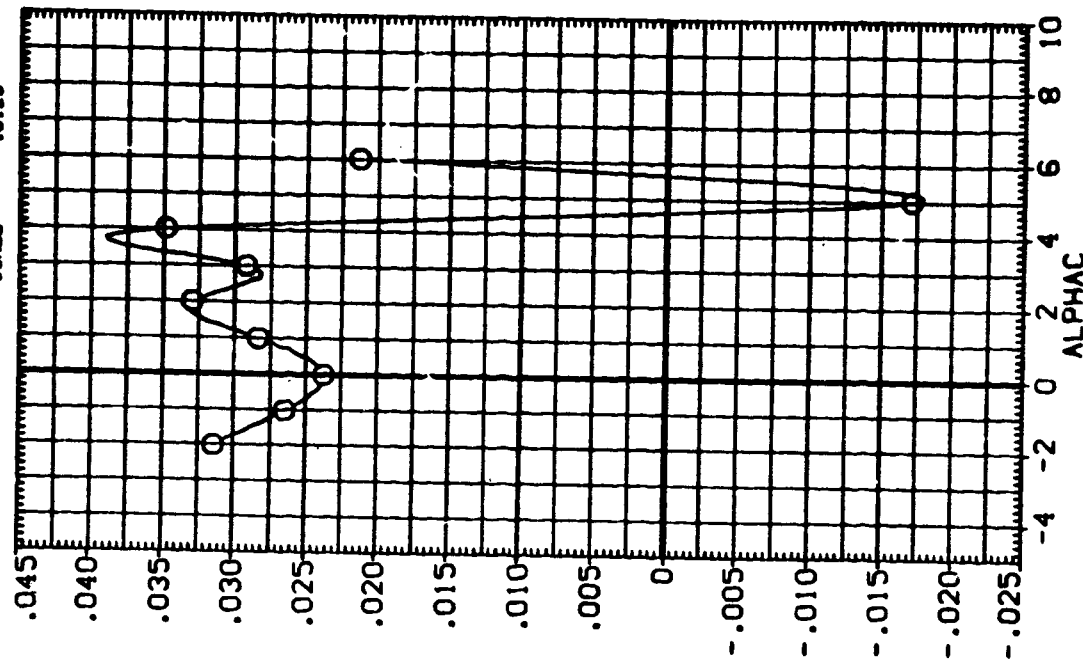
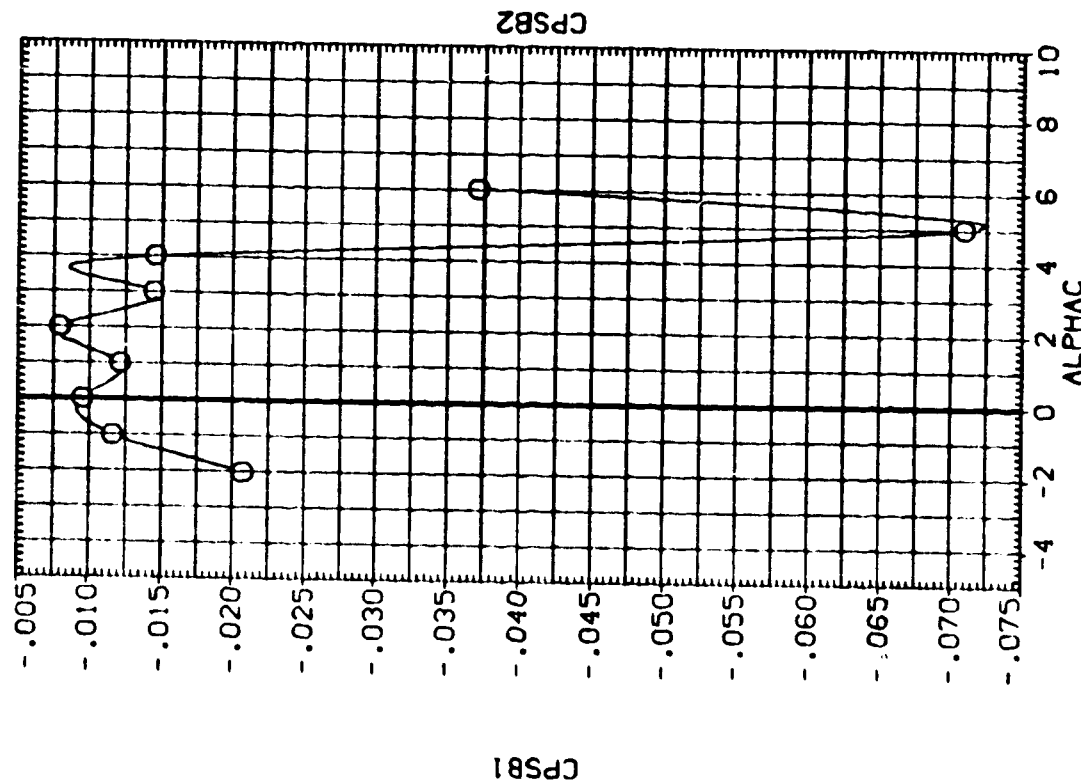


FIG.8 CARRIER ISOLATED BASE AND CAVITY PRESSURES

(A) MACH = .60

⊖

REFERENCE INFORMATION
 REF 5500.0000 90.FT.
 LREF 327.7800 IN.
 BREF 2346.0400 IN. MC
 XREF 1338.5000 IN. VC
 YREF .0000 IN. VC
 ZREF 180.7500 IN. ZC
 SCALE .0125

BETAC STAB-C RUD-C
 -5.000 1.000 .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (CE9811) ○ ARC14-080-1 CA23 747/3 (CARRIER ISOLATED)

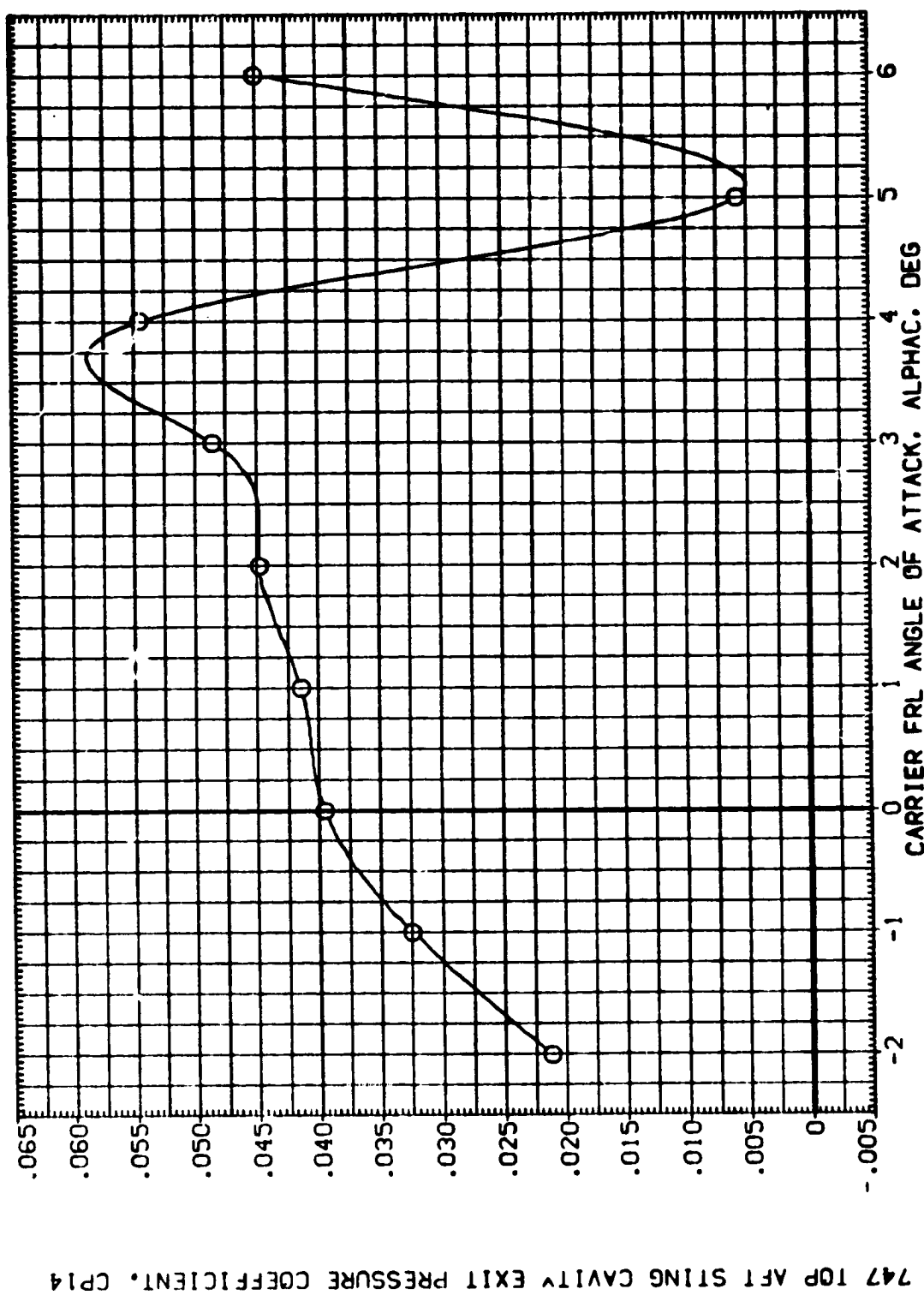


FIG.8 CARRIER ISOLATED BASE AND CAVITY PRESSURES

(A)MACH = .60

DATA SET SYMBOL (CE9811) \bigcirc CONFIGURATION DESCRIPTION ARC:4-080-1 CA23 747/3 (CARRIER ISOLATED)

BETAC STAB-C RUO-C
-5.000 1.000 .000

REFERENCE INFORMATION
SREF 5500.0000 SQ.FT.
LREF 377.7800 IN.
BREF 2348.0400 IN.
XMRP 1339.9000 IN. XC
YMRP .0000 IN. YC
ZMRP 190.7500 IN. ZC
SCALE .0125

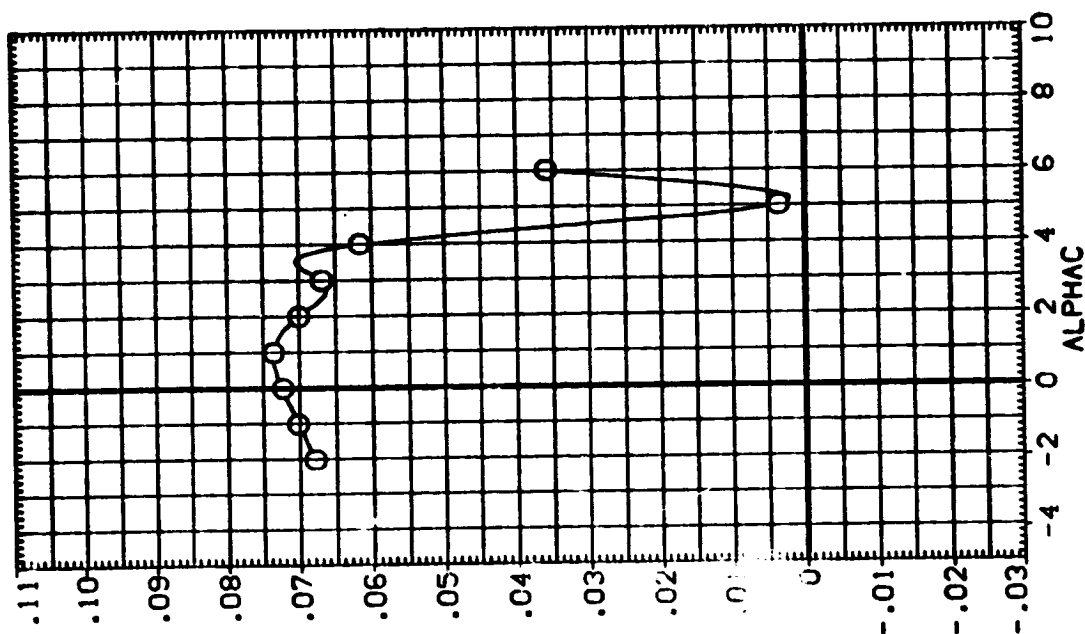
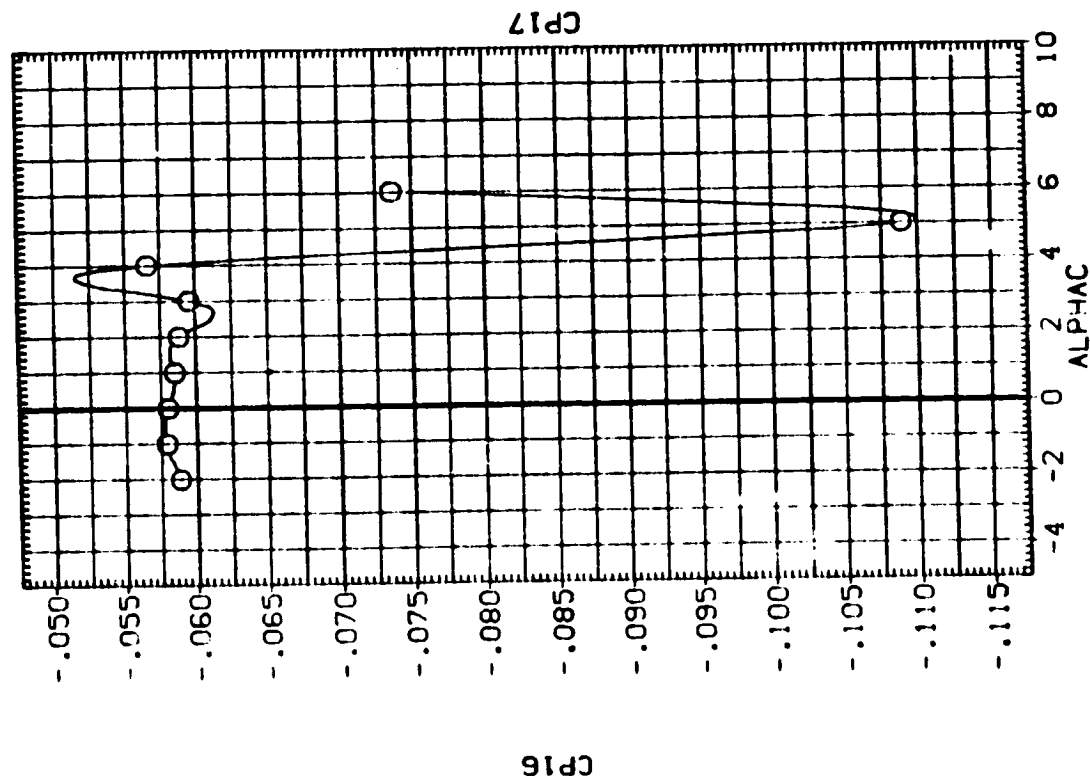


FIG.8 CARRIER ISOLATED BASE AND CAVITY PRESSURES

(A)MACH = .60



DATA SET SYMBOL (CE9812) ○ CONFIGURATION DESCRIPTION ARC14-080-1 CA23 747/3 (-V9.1)(CARRIER ISOLATED) DETAC STAG-C -5.000 1.000

REFERENCE INFORMATION
 SREF 5500.0000 99.57.
 LREF 327.7800 IN.
 BREF 2348.0400 IN.
 XREF 1338.5000 IN.
 YREF .0000 IN.
 ZREF 180.7500 IN.
 SCALE .0125

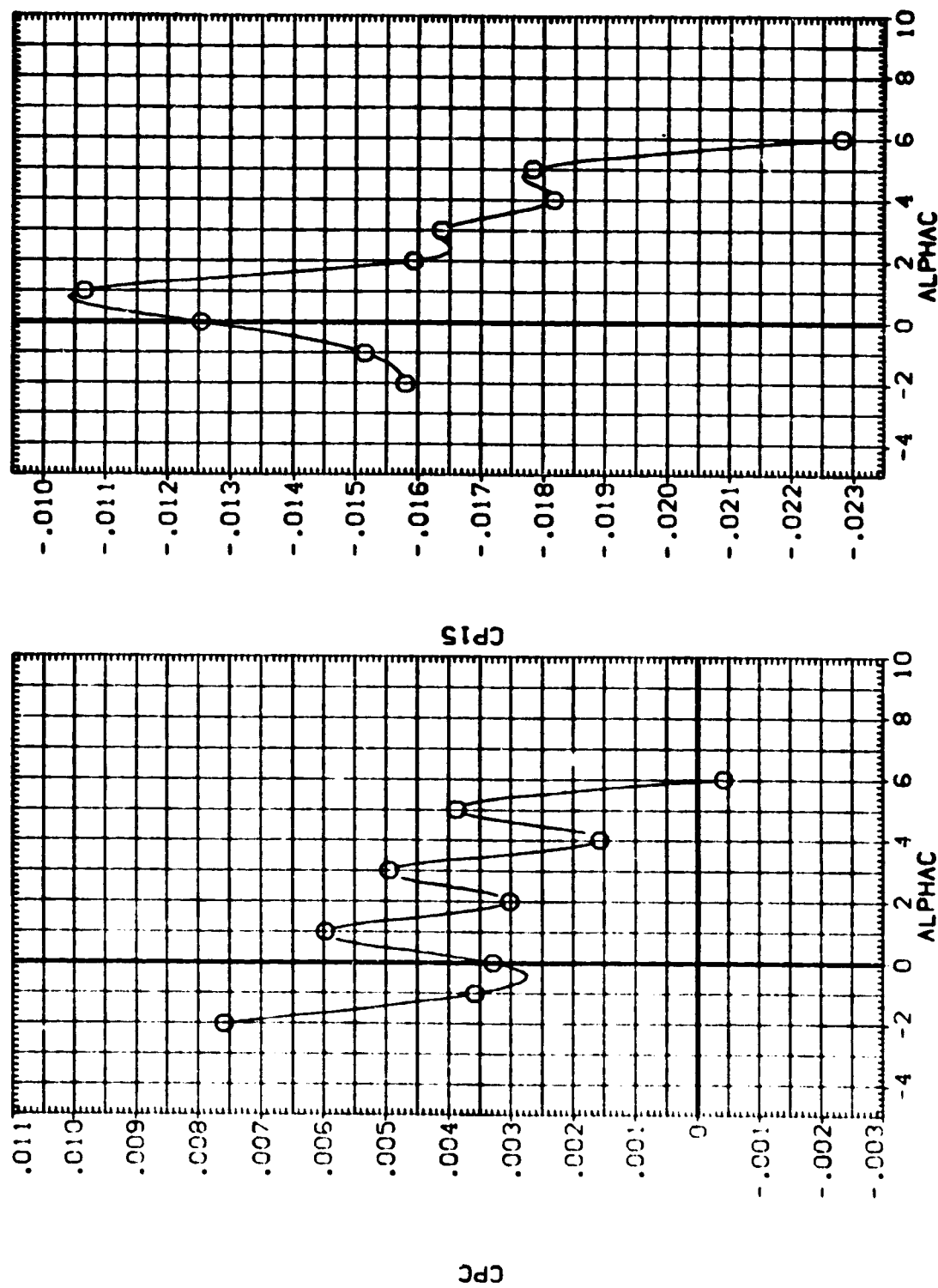


FIG.8 CARRIER ISOLATED BASE AND CAVITY PRESSURES
 (A) MACH = .60

DATA SET 514B2L CONFIGURATION DESCRIPTION
 (1E99.2) ARC14-08G-1 0423 747/3 (-V9.1)(CARRIER ISOLATED)

BETAC STAB-C
 -5.000 1.000

REFERENCE INFORMATION
 SREF 5000.0000 50.FT.
 LREF 327.7800 IN.
 BREF 2348.0400 IN.
 XMRP 1338.5000 IN.
 YMRP 190.7500 IN.
 ZMRP 190.7500 IN.
 SCALE .0125

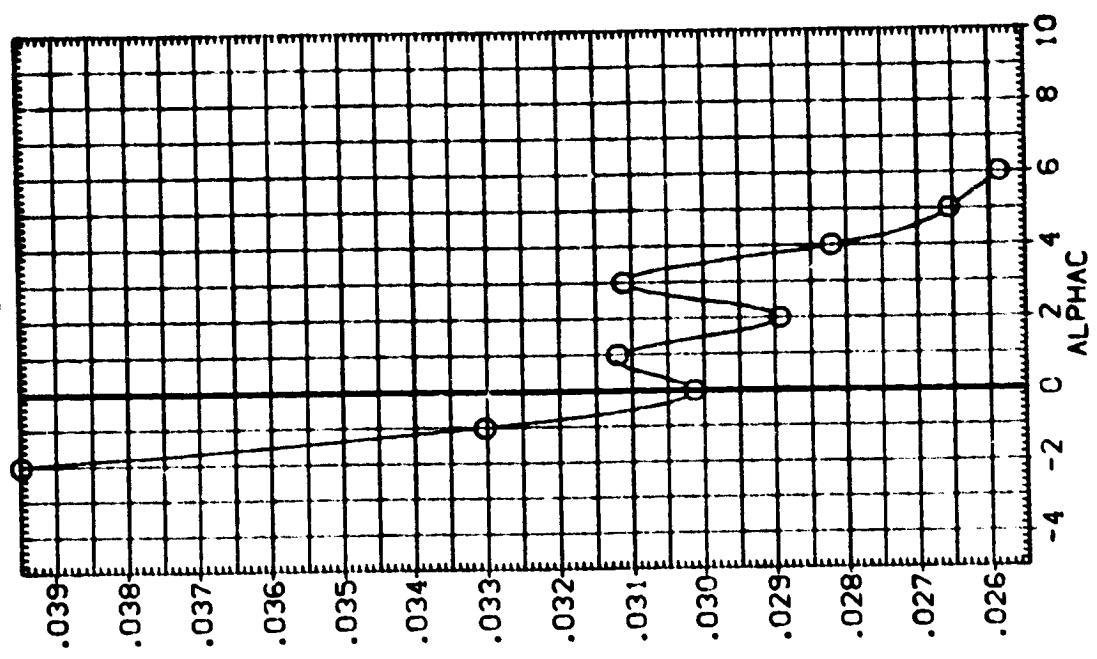
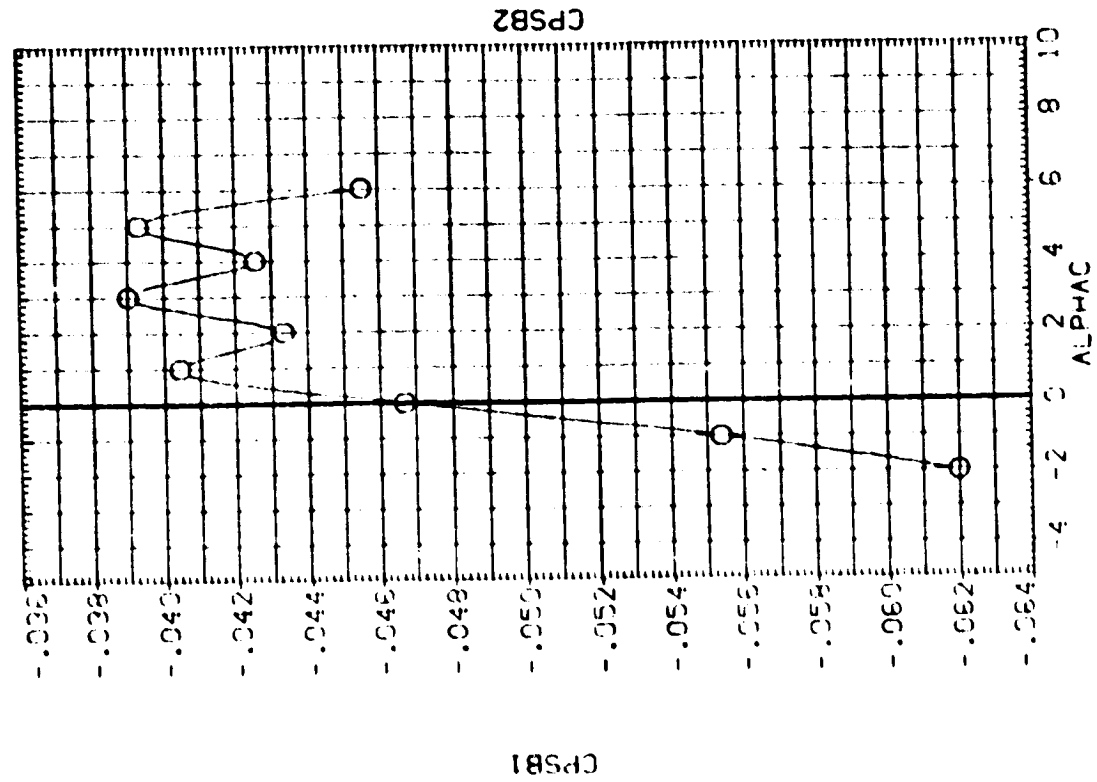


FIG.9 CARRIER ISOLATED BASE AND CAVITY PRESSURES

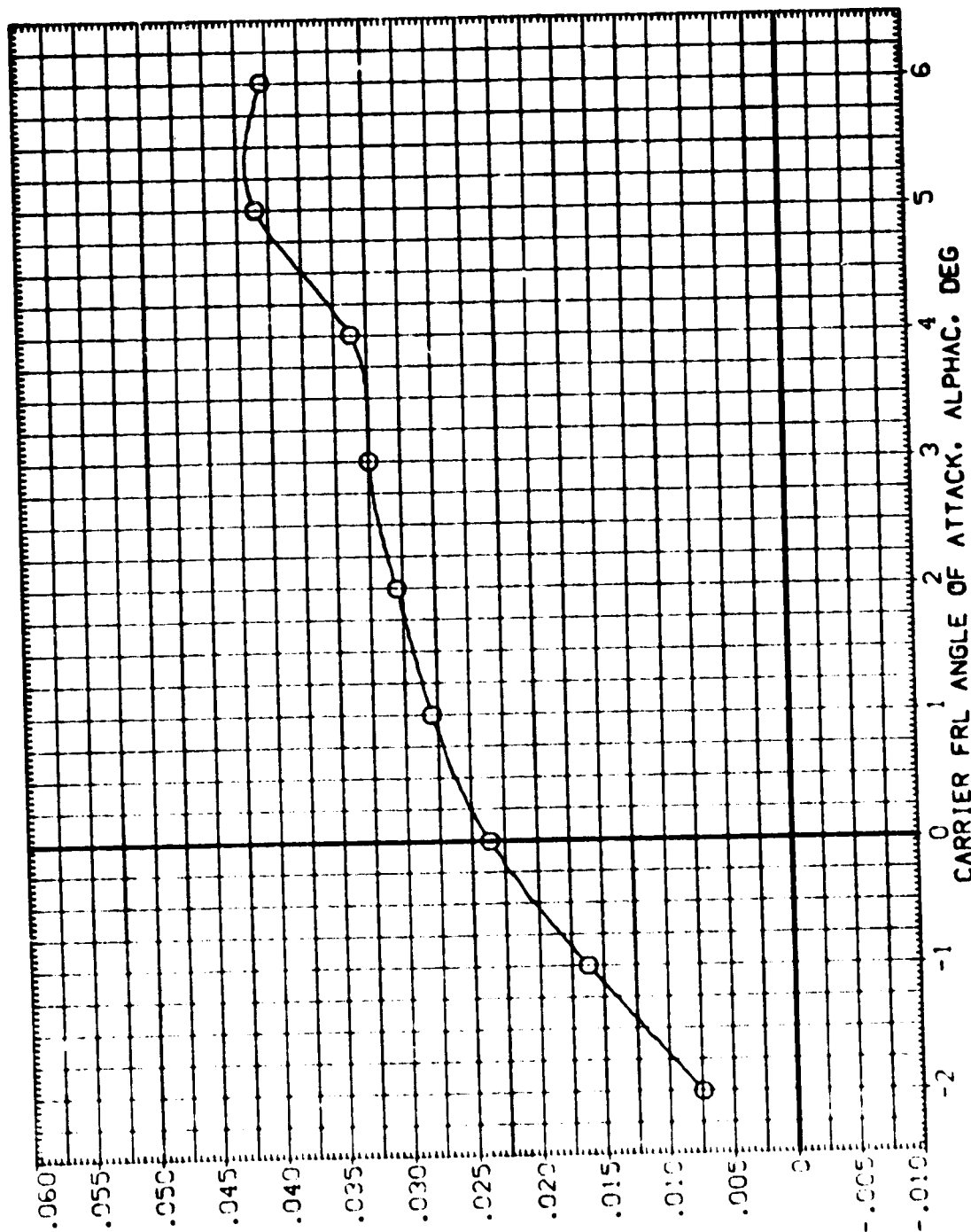
CAMACH = .50



REFERENCE INFORMATION
 SREF 5500.0000 90.00
 LREF 327.7000 IN.
 BREF 2248.0400 IN.
 XMRP 1335.5000 IN.
 YMRP .0000 IN.
 ZMRP 190.7500 IN.
 SCALE .0125

STAB-C
 BETAC -5.000 1.000

DATA SET SYMBOL: CONFIGURATION DESCRIPTION
 (CE9812) ○ ARC14-080-1 CA23 747/3 (-V9.1)(CARRIER ISOLATED)



747 TOP AFT STING CAVITY EXIT PRESSURE COEFFICIENT, CP14

FIG.8 CARRIER ISOLATED BASE AND CAVITY PRESSURES

(A) MACH = .60

DATA SET SYMBOL (CE9812) \odot CONFIGURATION DESCRIPTION ARC14-090-1 CA23 747/3 (-V9.1)(CARRIER ISOLATED)

BETAC STAB-C -5.000 1.000

REFERENCE INFORMATION
 SREF 5900.0000 SQ.FT.
 LREF 327.7800 IN.
 BREF 2348.0400 IN.
 XPRP 1375.9000 IN.
 YPRP .0000 IN.
 ZPRP 190.7500 IN.
 SCALE .0125

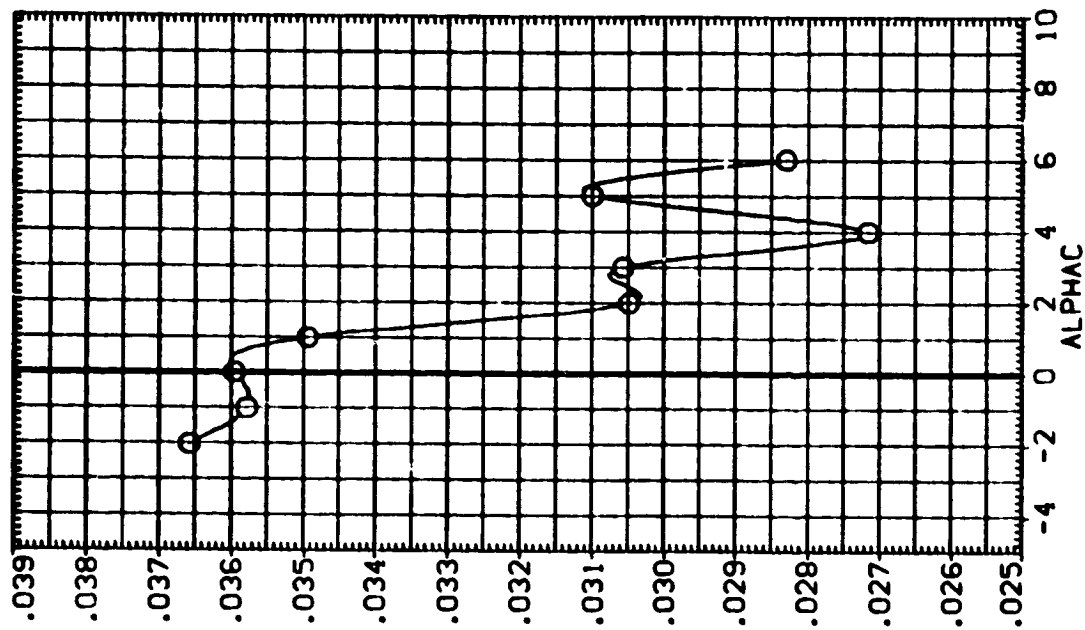
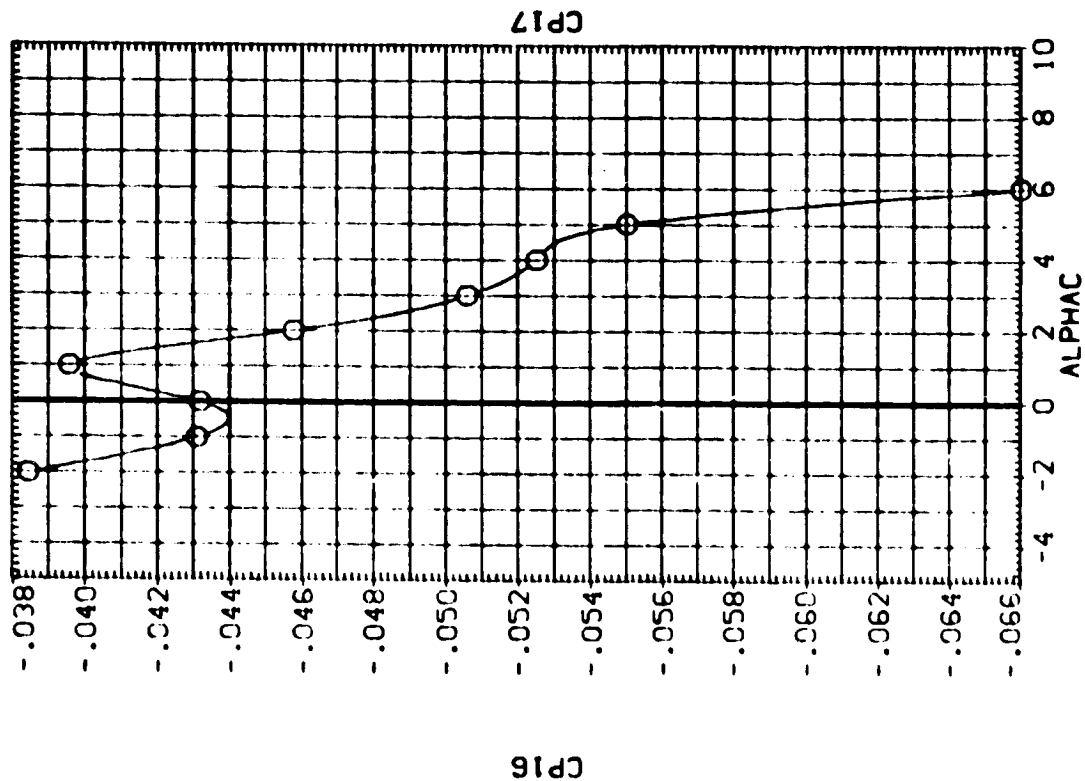


FIG.8 CARRIER ISOLATED BASE AND CAVITY PRESSURES

(A)MACH = .60

DATA SET SYMBOL: (CE9817) \bigcirc CONFIGURATION DESCRIPTION: ABC14-090-1 CA23 747/1 AT1 (CARRIER ISOLATED)

REF: 2300.0000 98.17.
 LREF: 327.7800 IN.
 BREF: 2348.0400 IN.
 XREF: 1339.5000 IN.
 YREF: 190.7500 IN.
 ZREF: 190.7500 IN.
 SCALE: .0125

BETAC STAB-C RLO-C
 .000 5.000 .000

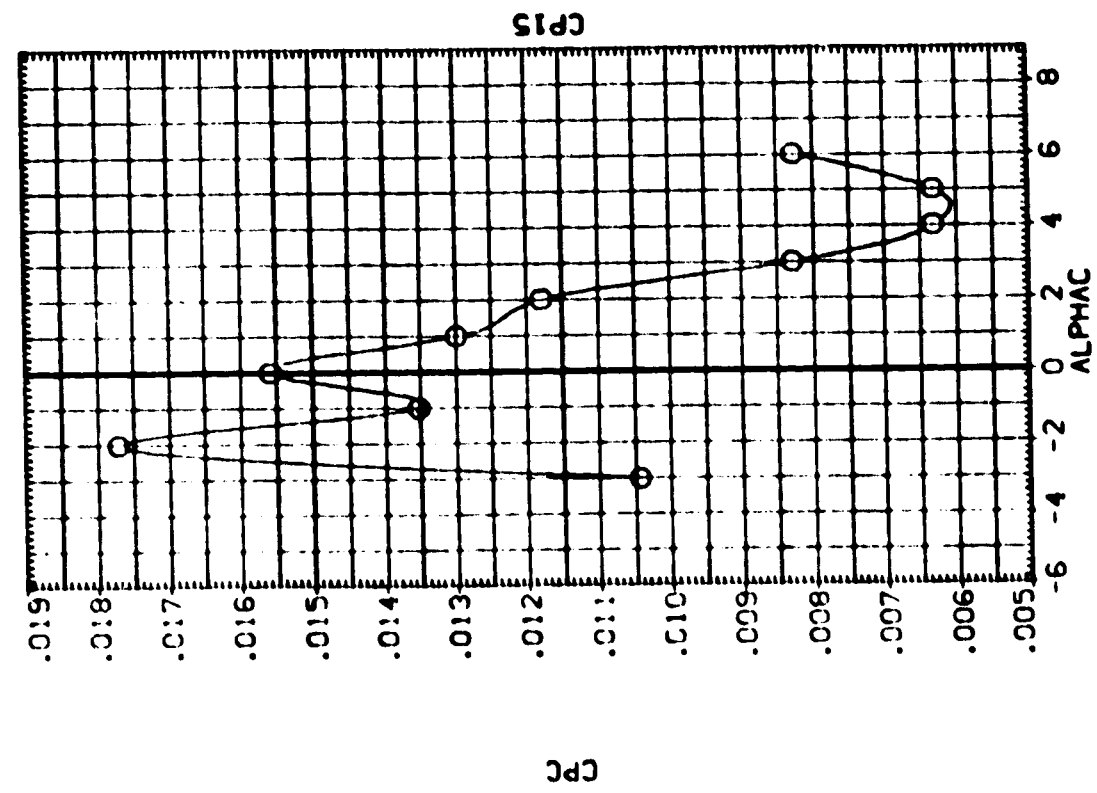
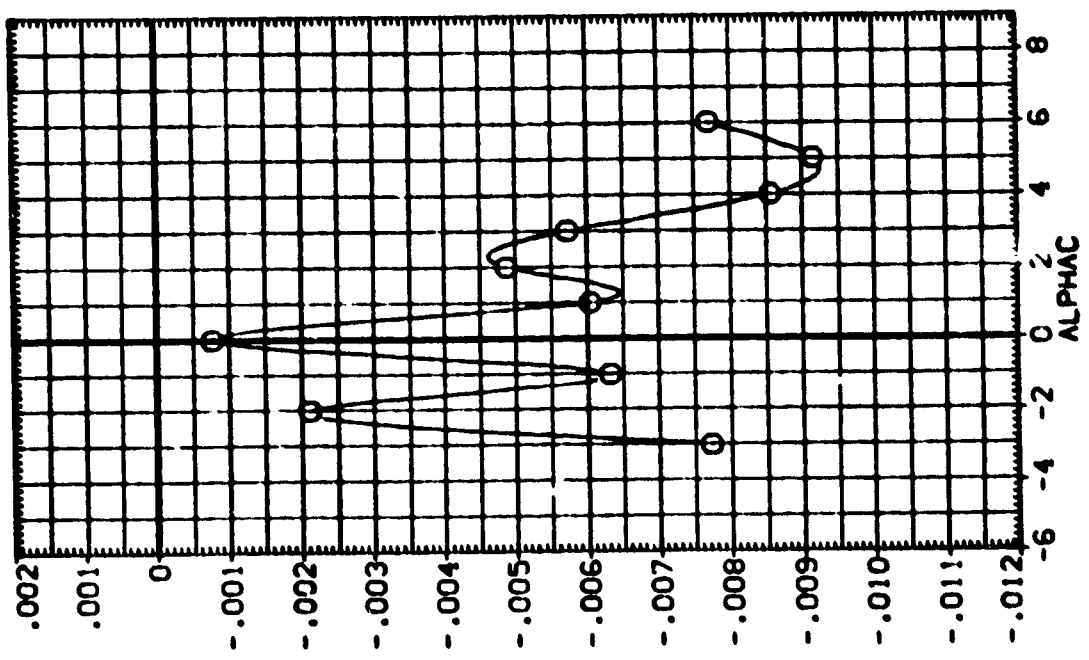


FIG.8 CARRIER ISOLATED BASE AND CAVITY PRESSURES

(A)MACH = .60

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(CES917) ○ ARC14-080-1 CA23 747/1 AT1 (CARRIER ISOLATED)

BETAC STAG-C RUD-C
.000 .000 .000

REFERENCE INFORMATION
SREF 5505.0000 50.0T.
LREF 327.7800 IN.
BREF 2348.0400 IN.
XREF 1328.9000 IN.
YREF .0000 IN.
ZREF 190.7500 IN.
SCALE .0125

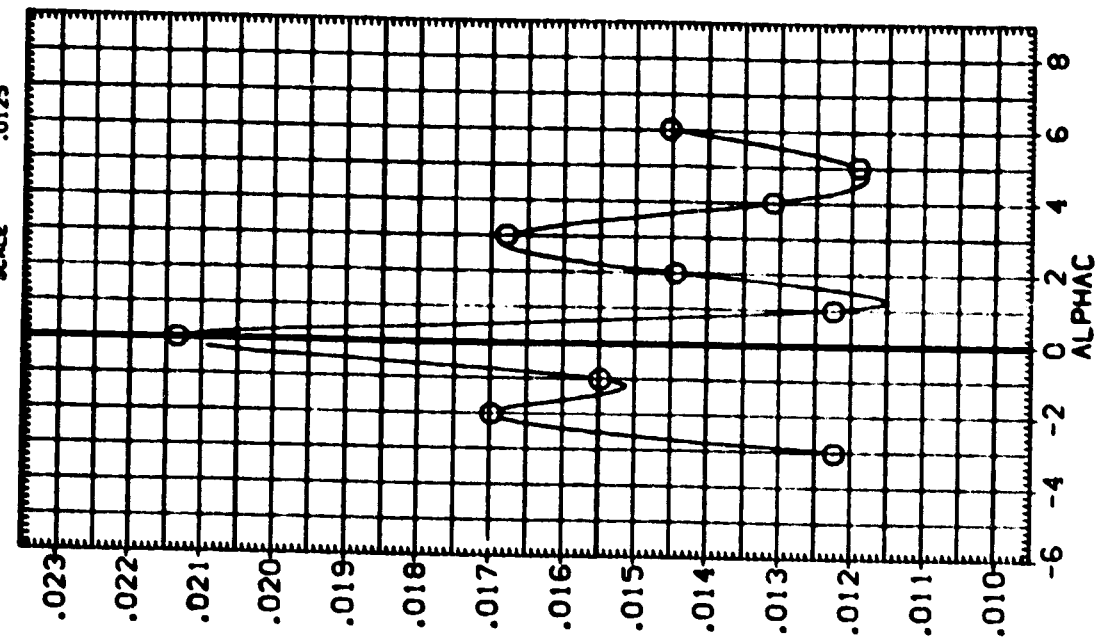
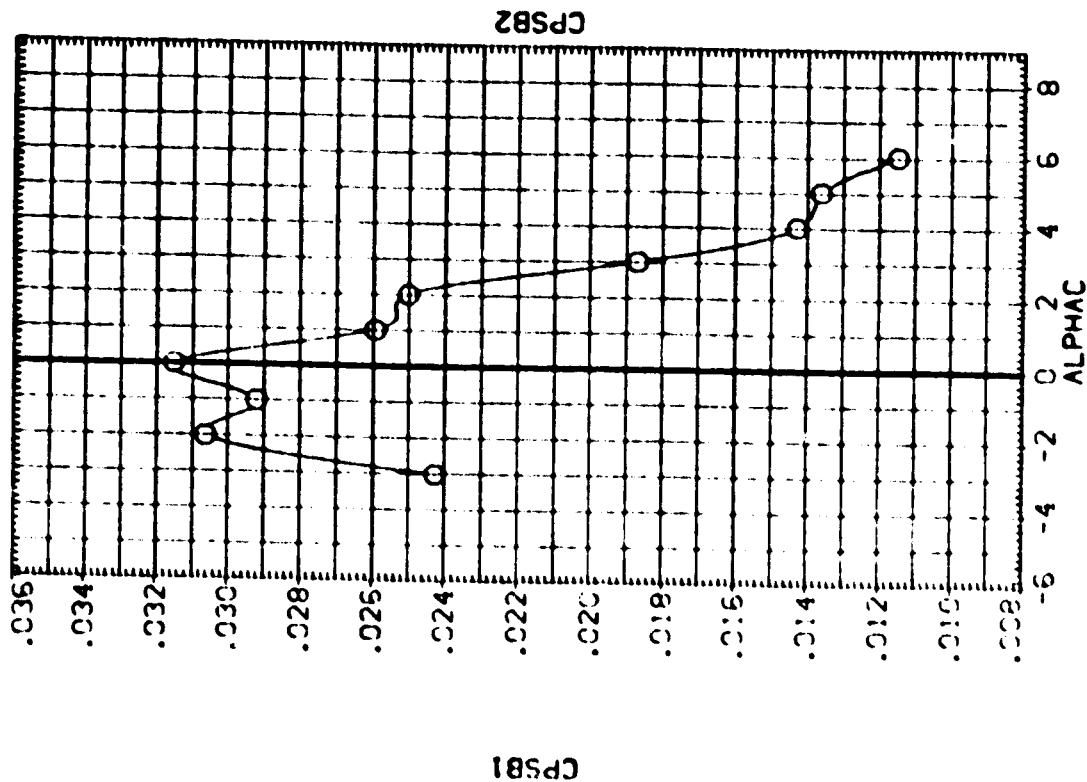


FIG.8 CARRIER ISOLATED BASE AND CAVITY PRESSURES

(A)MACH = .60



REFERENCE INFORMATION
 REF 9000.0000 90. FT.
 LREF 327.7800 IN.
 BREF 2346.0400 IN. RE
 YMRP 1338.5000 IN. VC
 ZMRP 190.7500 IN. ZC
 SCALE .0125

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (C9817) O ARC14-080-1 CA23 747/1 AT1 (CARRIER ISOLATED)

BETAC STAB-C RUD-C
 .000 5.000 .000

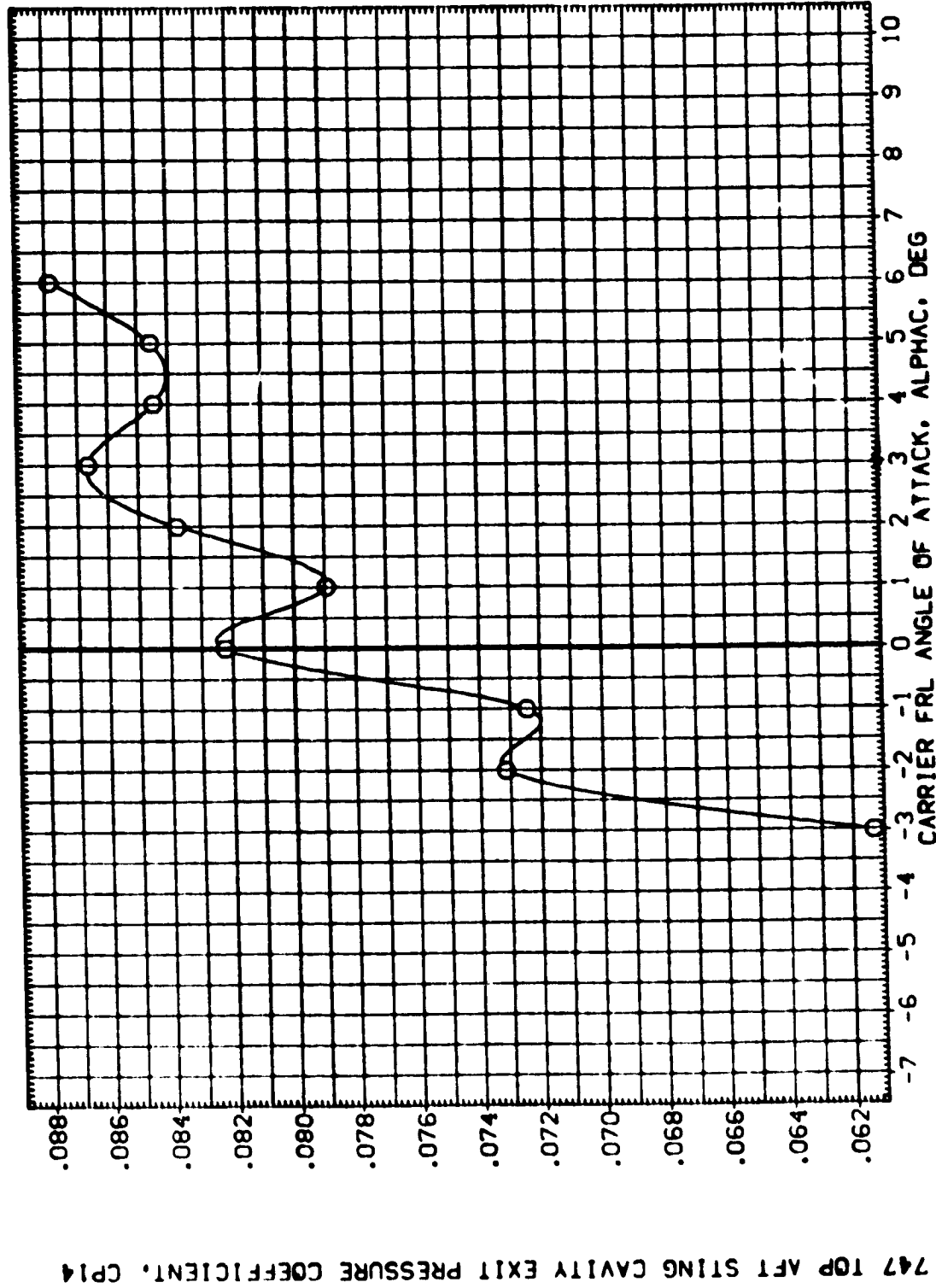


FIG.8 CARRIER ISOLATED BASE AND CAVITY PRESSURES

(A)MACH = .60

DATA SET SYMBOL (CE9817) \bigcirc CONFIGURATION DESCRIPTION ARC14-080-1 CA23 747/1 AT1 (CARRIER ISOLATED)

BETAC .000 STAB-C 5.000 RUO-C .000

REFERENCE INFORMATION
 SREF 5500.0000 SQ.FT.
 LREF 327.7800 IN.
 BREF 2346.0400 IN. XC
 XMRP 1338.5000 IN. YC
 YMRP 190.7500 IN. ZC
 SCALE .0125

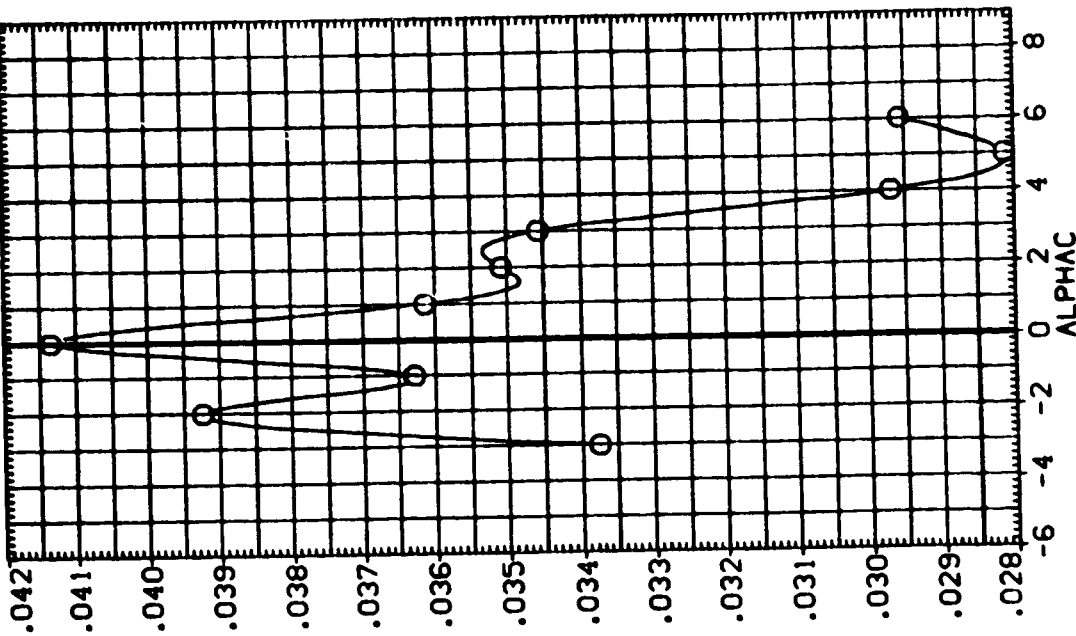
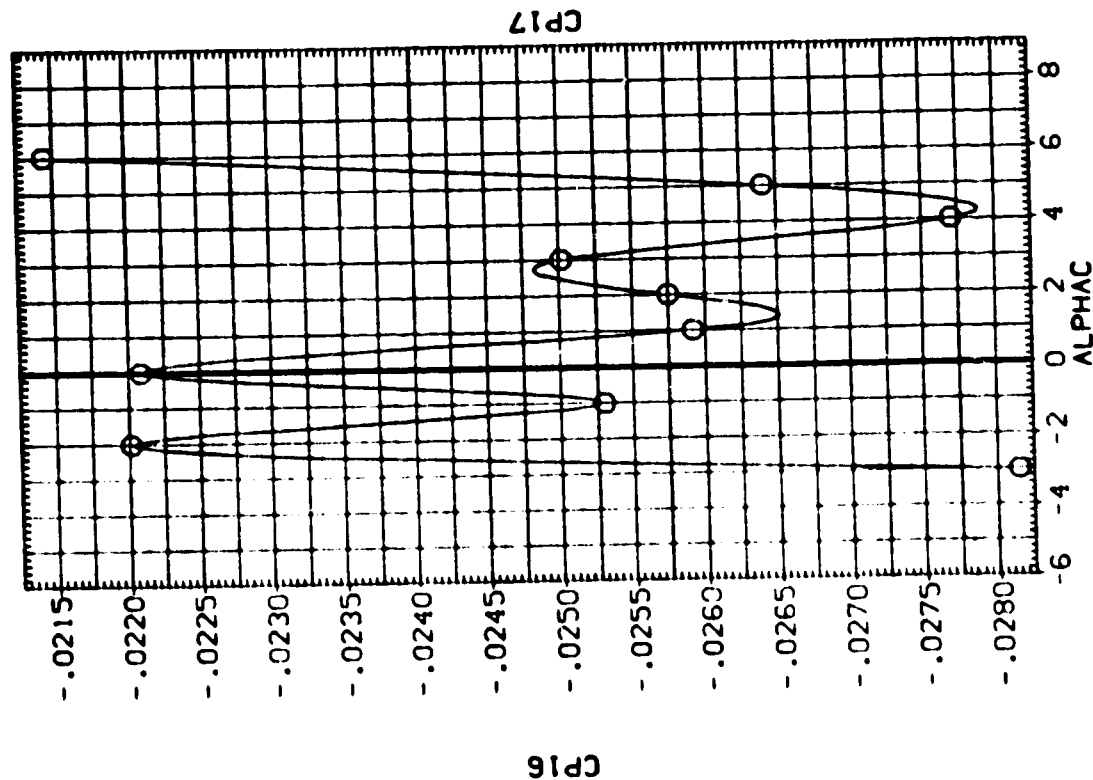


FIG.8 CARRIER ISOLATED BASE AND CAVITY PRESSURES

(A)MACH = .60



DATA SET SYMBOL (CE9018) \bigcirc CONFIGURATION DESCRIPTION ARC14-080-1 CA23 747/1 AT1 (CARRIER ISOLATED)

BETAC STAB-C RUO-C
.000 5.000 10.000

REFERENCE INFORMATION
SREF 5500.0000 SQ.FT.
LREF 327.7800 IN.
BREF 2348.0400 IN.
XMRP 1339.5000 IN.
YMRP .0000 IN.
ZMRP 190.7500 IN.
SCALE .0125

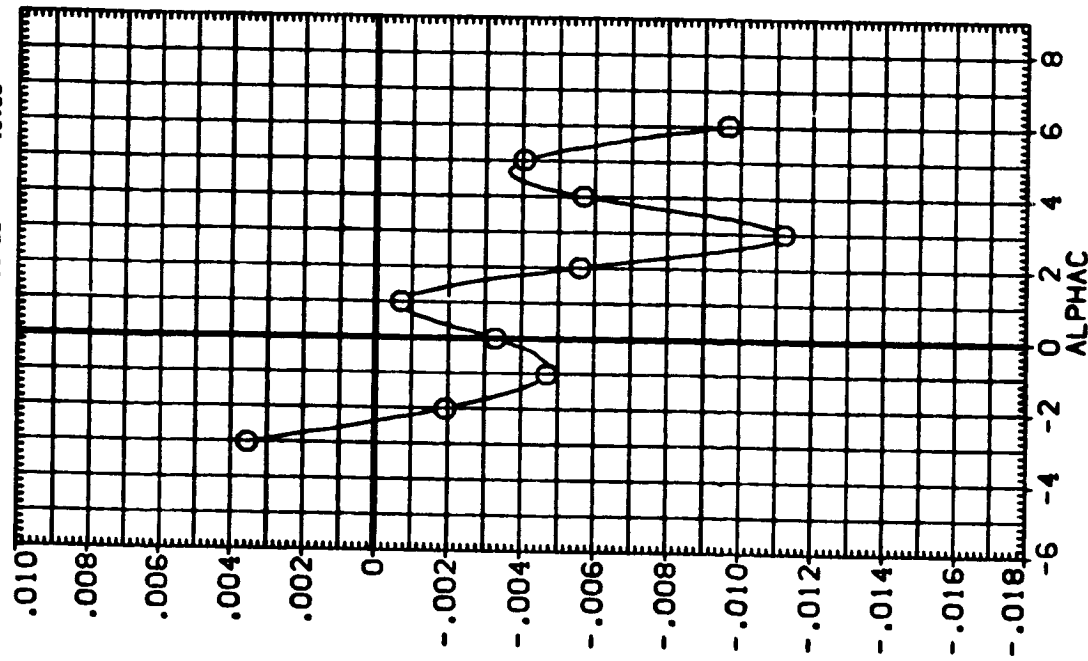
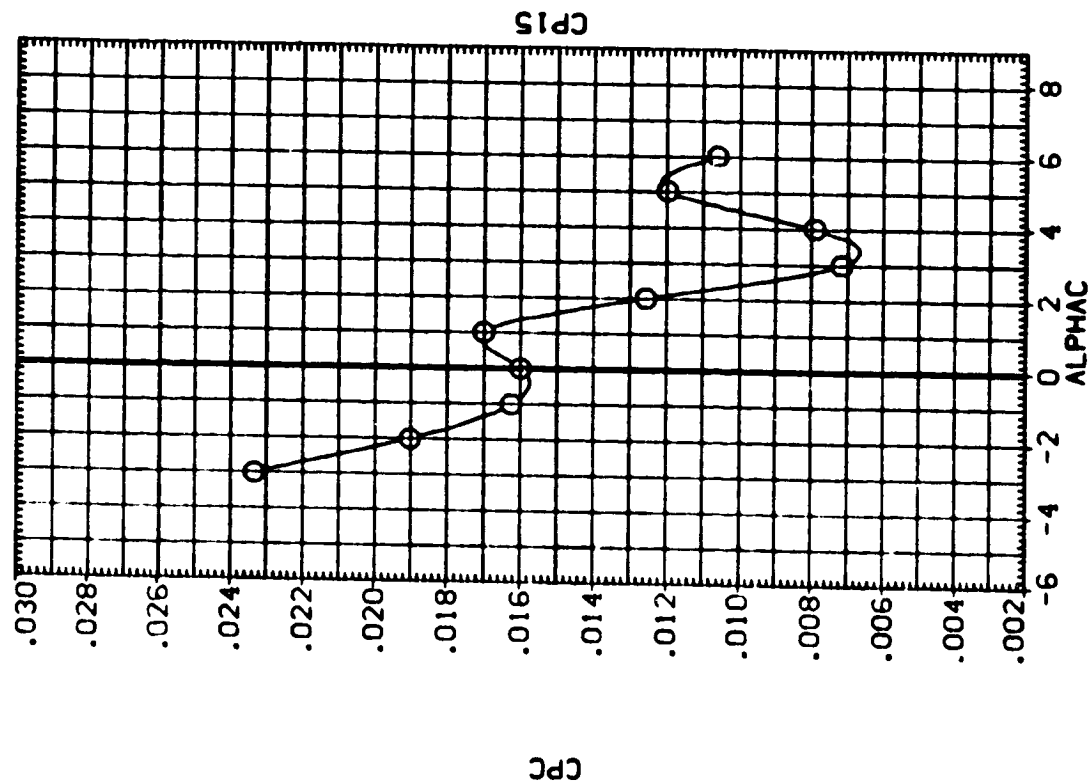


FIG.8 CARRIER ISOLATED BASE AND CAVITY PRESSURES

(A) MACH = .60

DATA SET SYMBOL (CE9818) \bigcirc CONFIGURATION DESCRIPTION ARC14-080-1 CA23 747/1 AT1 (CARRIER ISOLATED)

BETAC STAB-C RUO-C
.000 5.000 10.000

REFERENCE INFORMATION
SREF 5500.0000 SQ.FT.
LREF 327.7800 IN.
BREF 2348.0400 IN.
XMRP 1339.9000 IN. XC
YMRP .0000 IN. YC
ZMRP 190.7500 IN. ZC
SCALE .0125

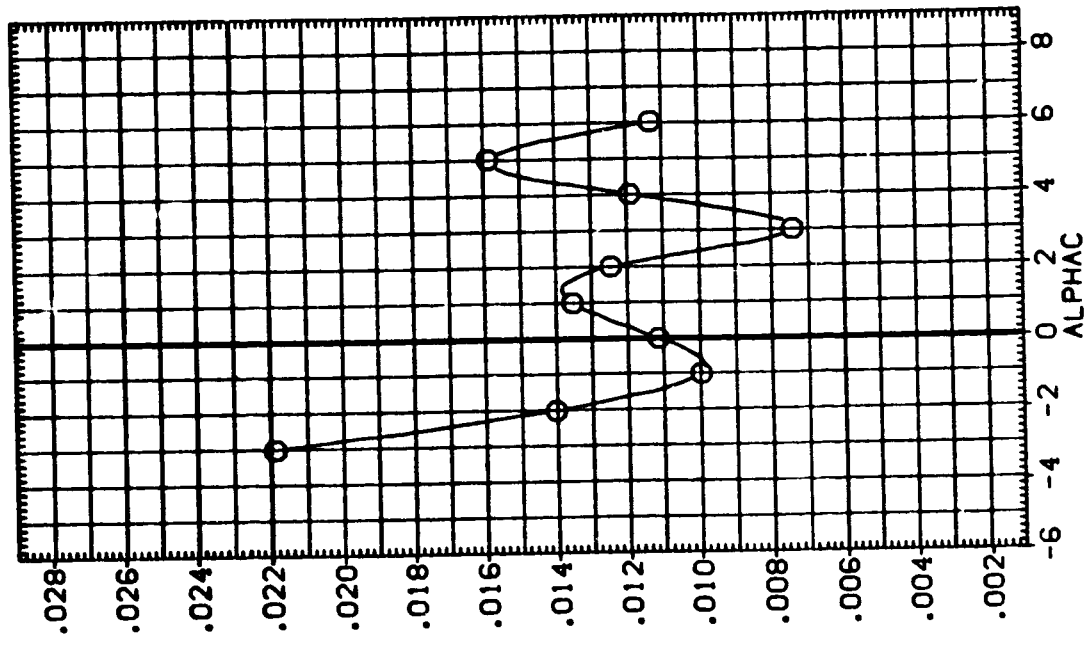
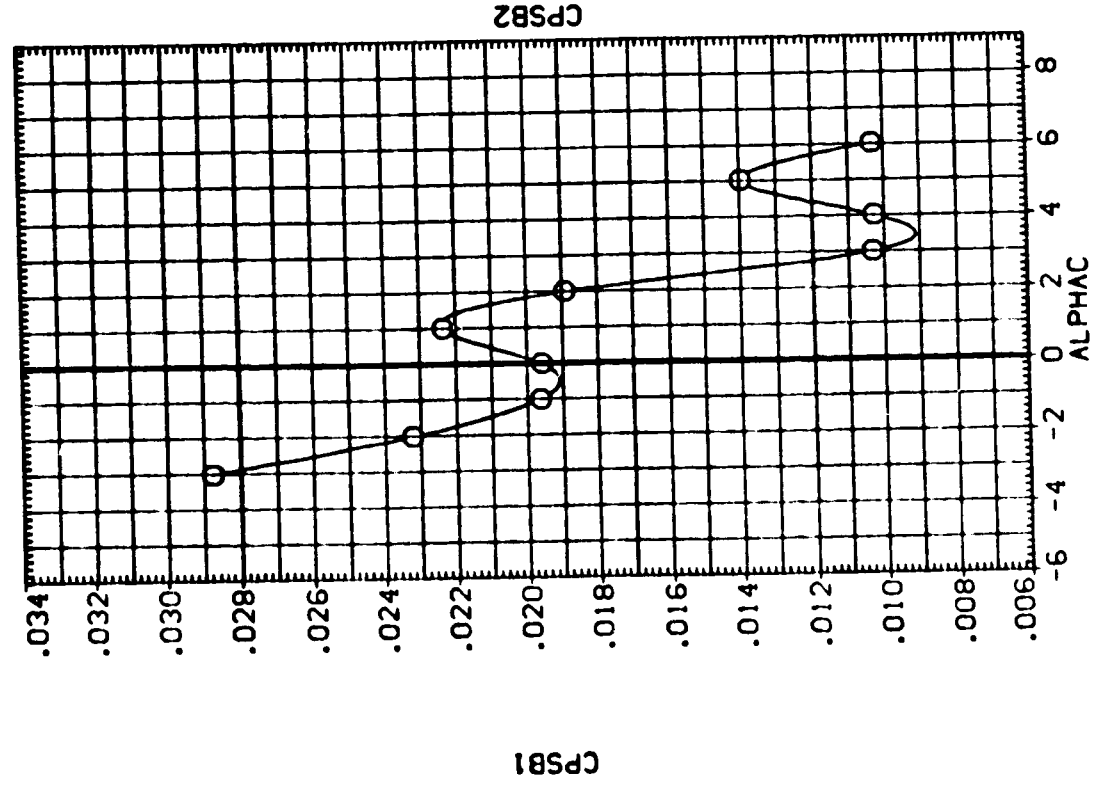


FIG.8 CARRIER ISOLATED BASE AND CAVITY PRESSURES

(A)MACH = .60



DATA SET SYMBOL: (CE9818) \bigcirc ARC14-080-1 CA23 747/1 AT1 (CARRIER ISOLATED)

DETAC: .000 STAB-C: 9.000 RUJ-C: 10.000

REFERENCE INFORMATION
 SREF: 5500.0000 90.17.
 LREF: 327.7800 IN.
 BREF: 2346.0400 IN.
 XMRP: 1339.8000 IN.
 YMRP: .0000 IN.
 ZMRP: 190.7500 IN.
 SCALE: .0125

747 TOP AFT STING CAVITY EXIT PRESSURE COEFFICIENT, C_{P14}

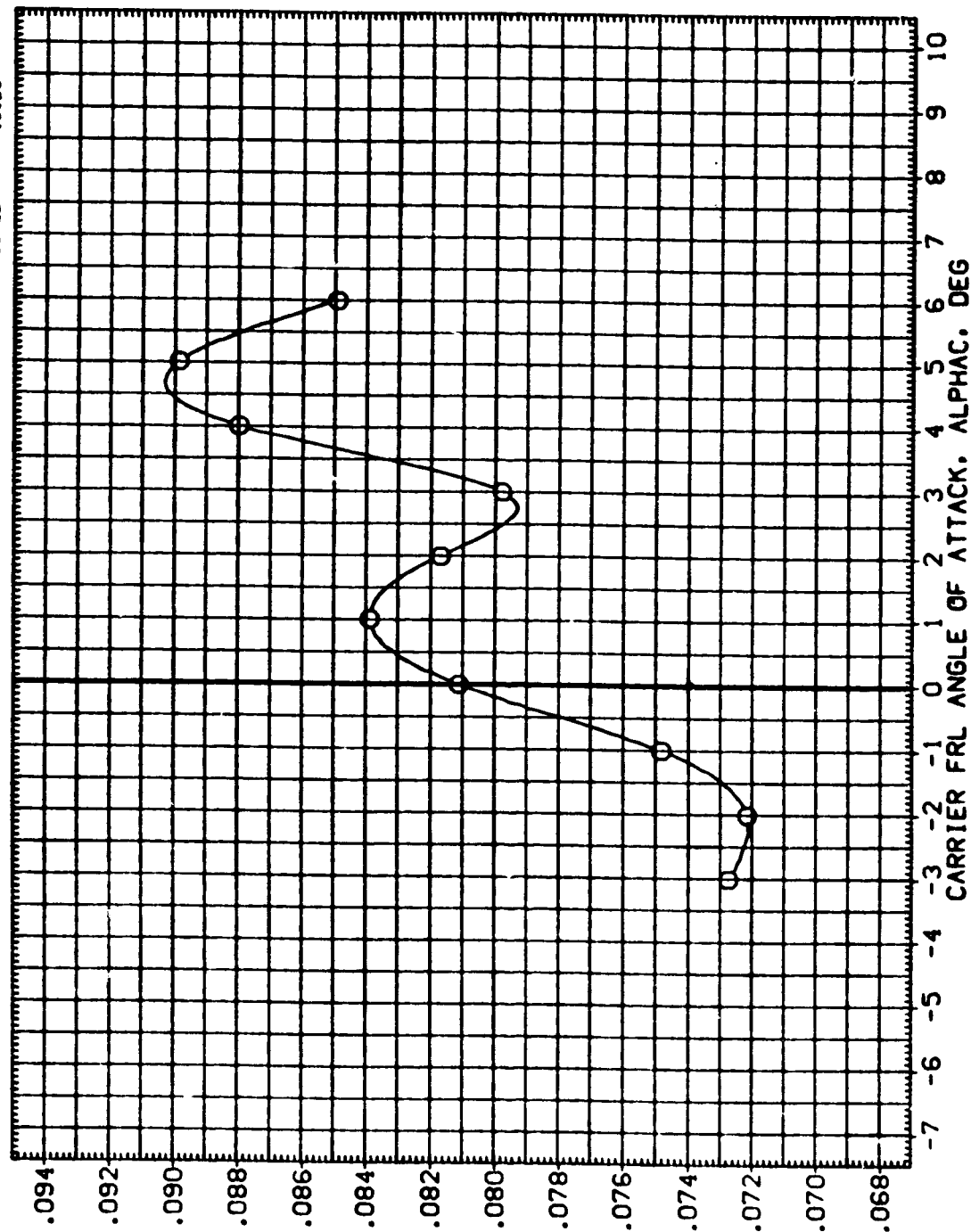


FIG.8 CARRIER ISOLATED BASE AND CAVITY PRESSURES

(A)MACH = .60

DATA SET SYMBOL (CE9818) ○ ARC14-080-1 CA23 747/1 AT1 (CARRIER ISOLATED)

BETA-C STAB-C RUO-C .000 5.000 10.000

REFERENCE INFORMATION
 SREF 5500.0000 SQ.FT.
 LREF 327.7800 IN.
 BREF 2348.0400 IN.
 XMRP 1339.5000 IN. MC
 YMRP .0000 IN. VC
 ZMRP 180.7500 IN. ZC
 SCALE .0125

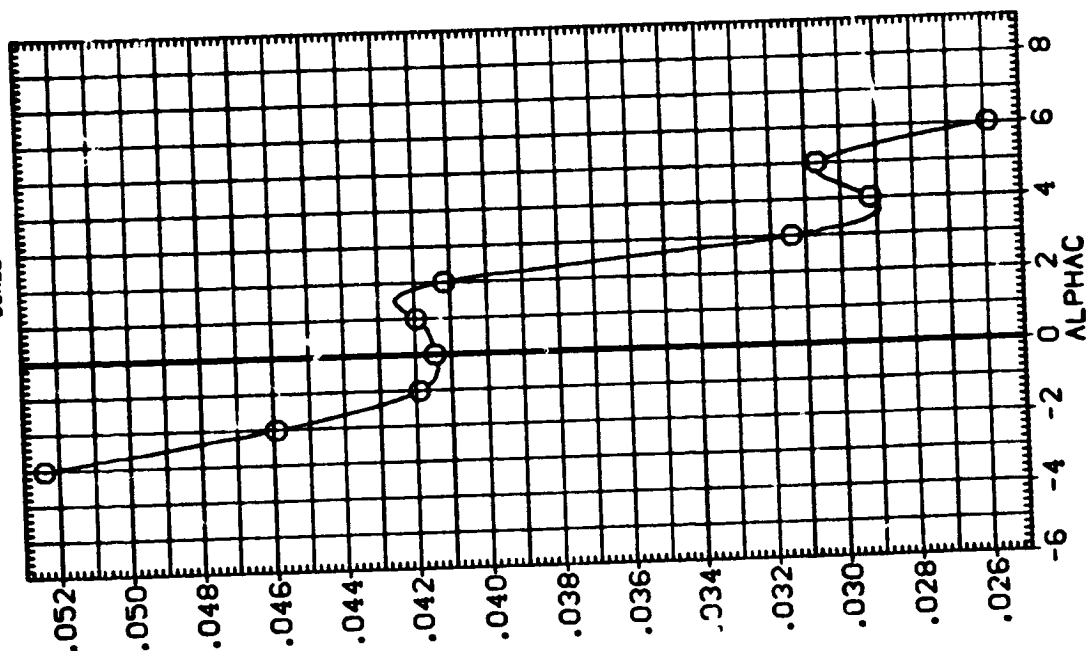
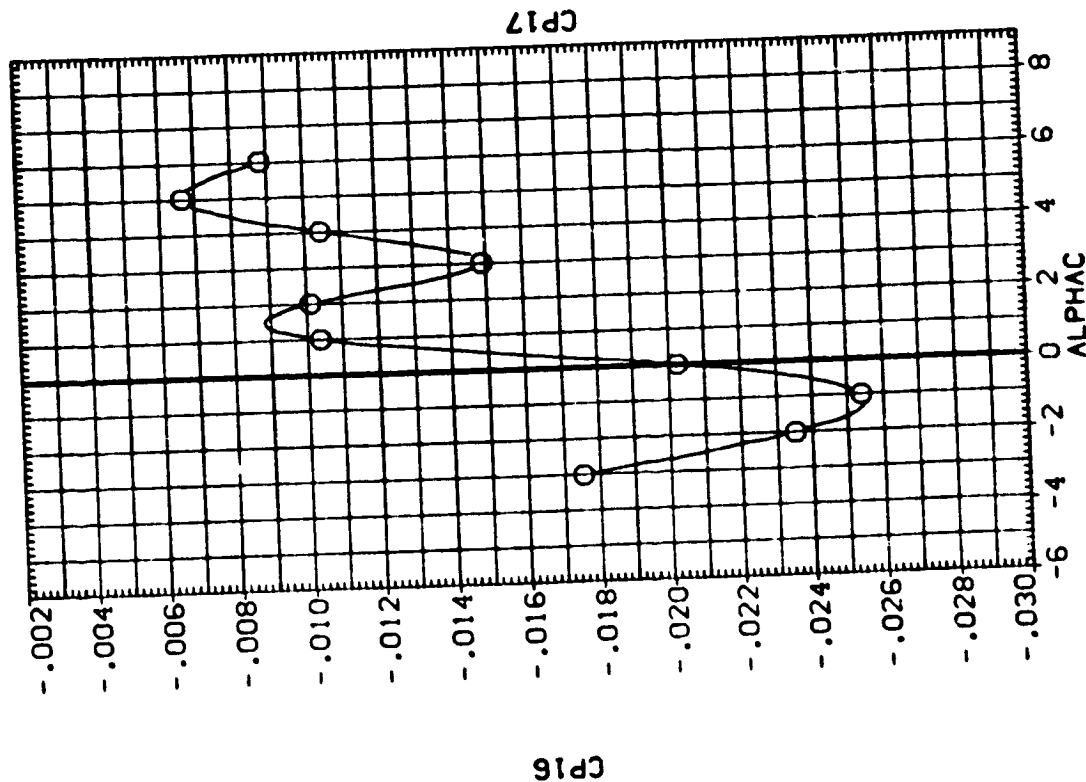


FIG.8 CARRIER ISOLATED BASE AND CAVITY PRESSURES

(A) MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(CE9819) ○ ARC14-080-1 CA23 747/1 AT1 (CARRIER ISOLATED)

DETAC STAB-C RUO-C
.000 -1.000 .000

REFERENCE INFORMATION
SREF 5500.0000 90. FT.
LREF 327.7800 IN.
BREF 2348.0400 IN.
XWRP 1339.5000 IN.
YWRP .0000 IN.
ZWRP 190.7500 IN.
SCALE .0125

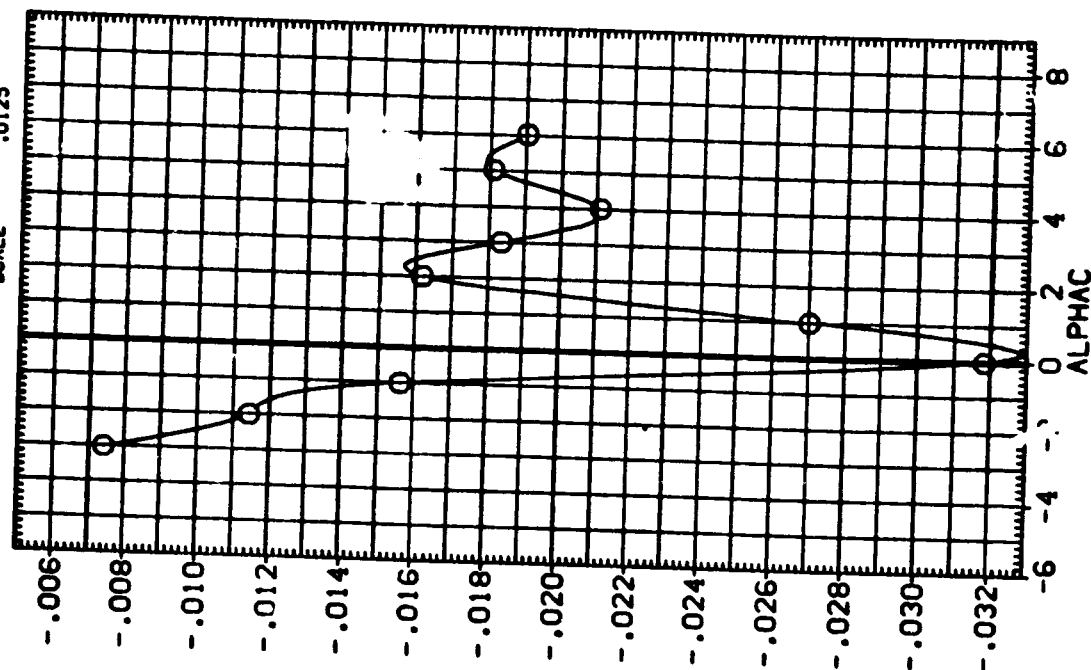
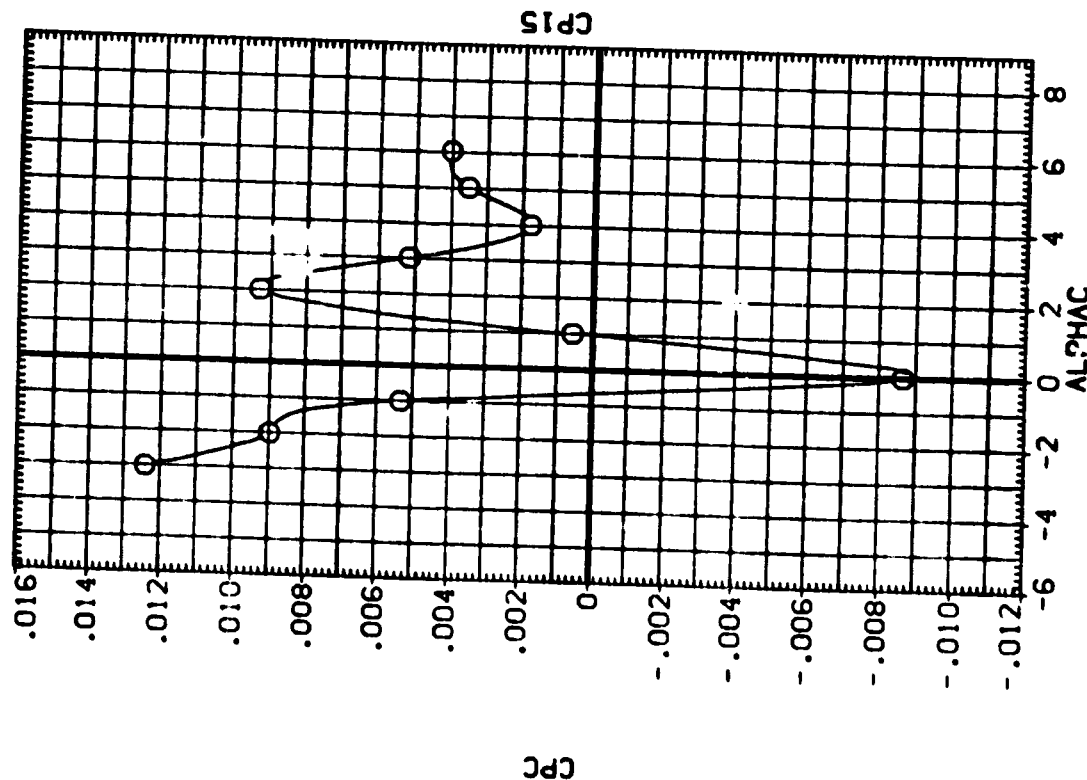


FIG.8 CARRIER ISOLATED BASE AND CAVITY PRESSURES

CA/MACH = .60

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS KNOWN

DATA SET SYMBOL (CE9819) \bigcirc CONFIGURATION DESCRIPTION ARC14-080-1 CA23 747/1 AT1 (CARRIER ISOLATED)

BETAC .000 STAB-C -1.000 RUO-C .000

REFERENCE INFORMATION
SREF 9500.0000 SQ.FT.
LREF 327.7600 IN.
BREF 2348.0400 IN.
XMRP 1339.9000 IN.
YMRP 190.7500 IN.
ZMRP 190.7500 IN.
SCALE .0125

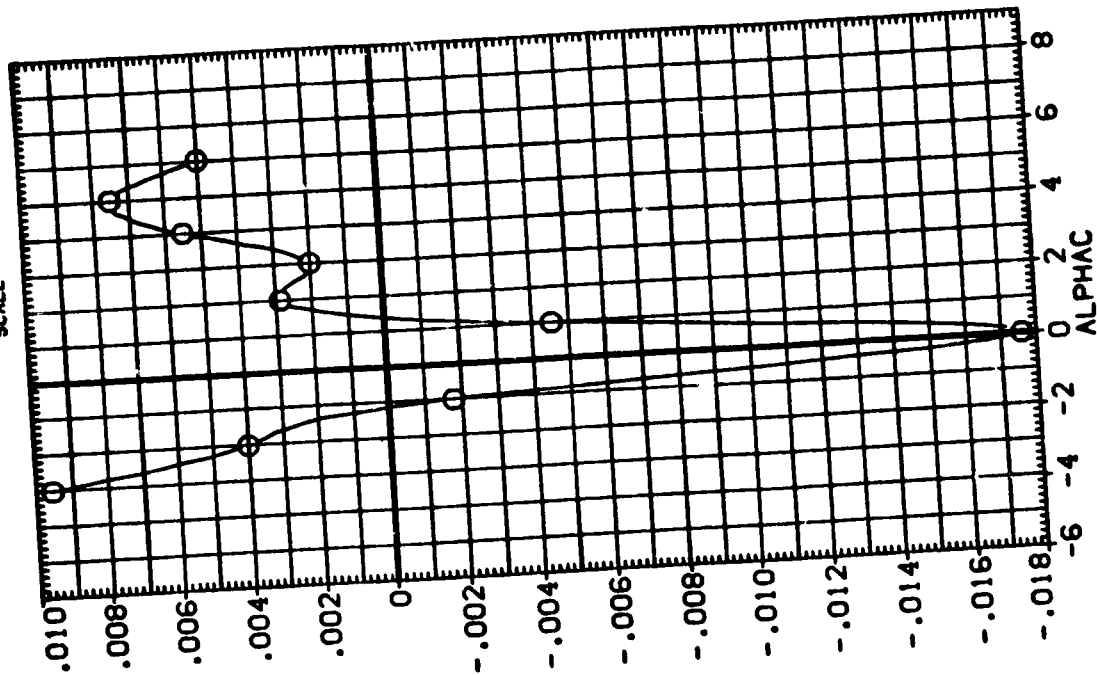
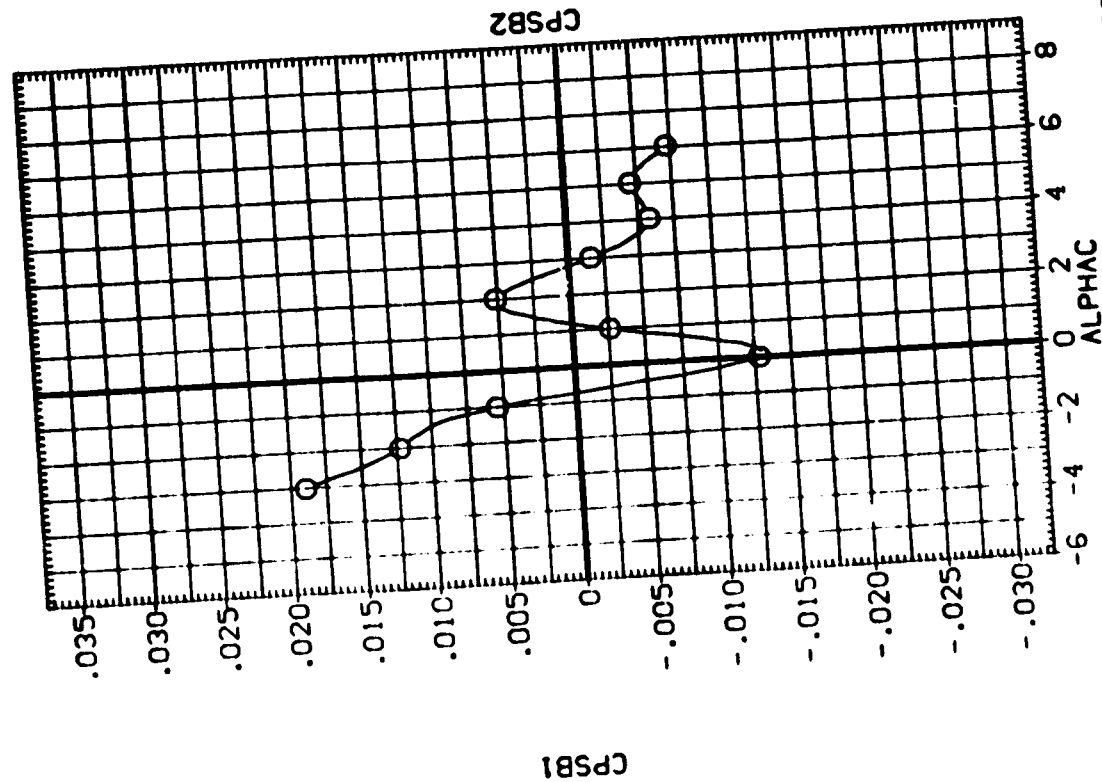


FIG.8 CARRIER ISOLATED BASE AND CAVITY PRESSURES

(A)MACH = .60

REFERENCE INFORMATION
 SREF 5500.0000 90.0 FT.
 LREF 327.7800 IN.
 BREF 2346.0400 IN.
 YMRP 1335.8000 IN. VC
 YMRP 190.7500 IN. VC
 SCALE .0125

BETAC STAB-C RUD-C
 .000 -1.000 .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (CE9819) O ARC14-080-1 CA23 747/1 AT1 (CARRIER ISOLATED)

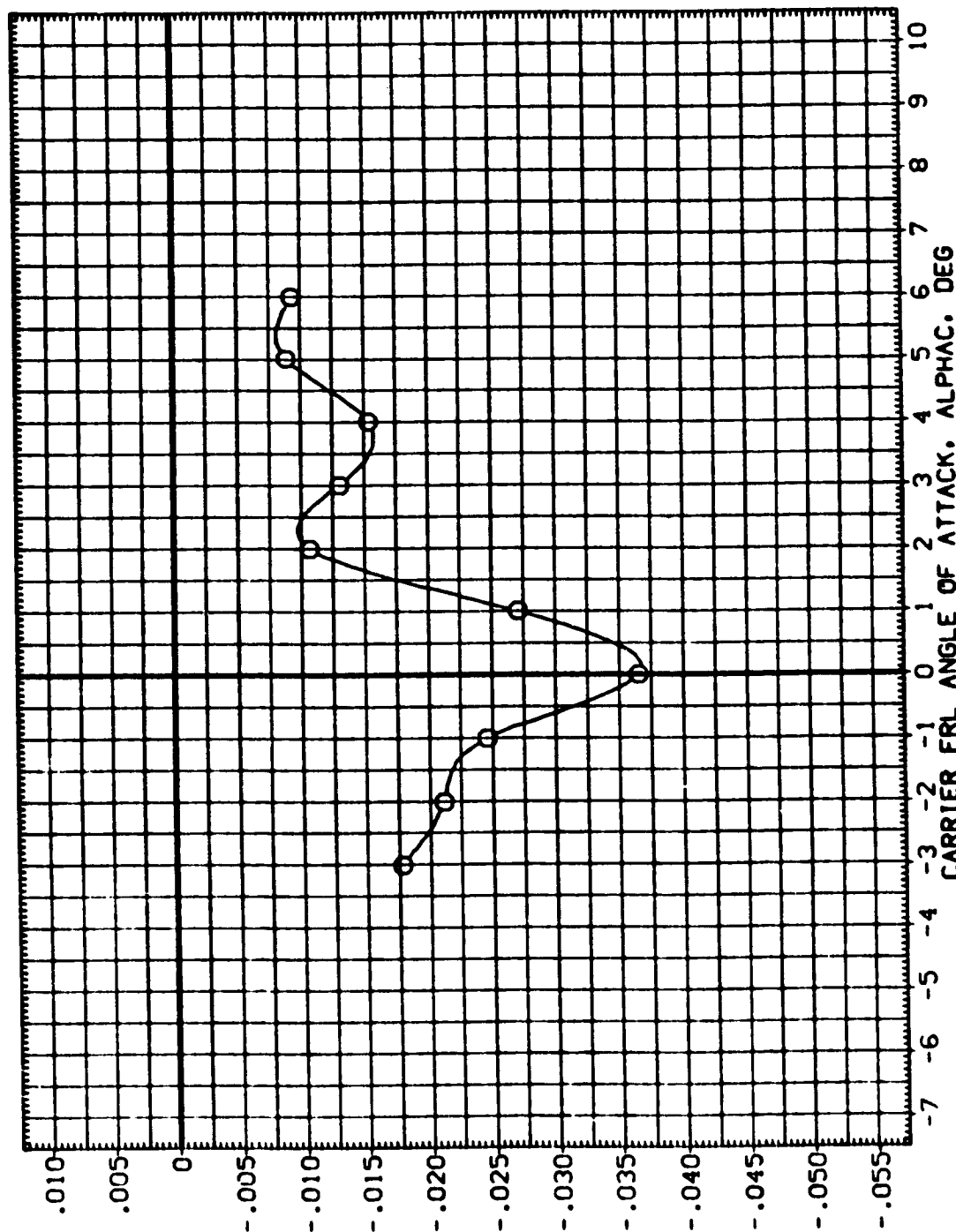


FIG.8 CARRIER ISOLATED BASE AND CAVITY PRESSURES

(A)MACH = .60

DATA SET SYMBOL (CES819) \bigcirc ARC14-080-1 CA23 747/1 AT1 (CARRIER ISOLATED)

BETAC STAB-C RUO-C
.000 -1.000 .000

REFERENCE INFORMATION
SREF 5500.0000 SQ.FT.
LREF 327.7800 IN.
BREF 2348.0400 IN.
XPRP 1339.5000 IN. XC
YPRP .0000 IN. YC
ZPRP 190.7500 IN. ZC
SCALE .0125

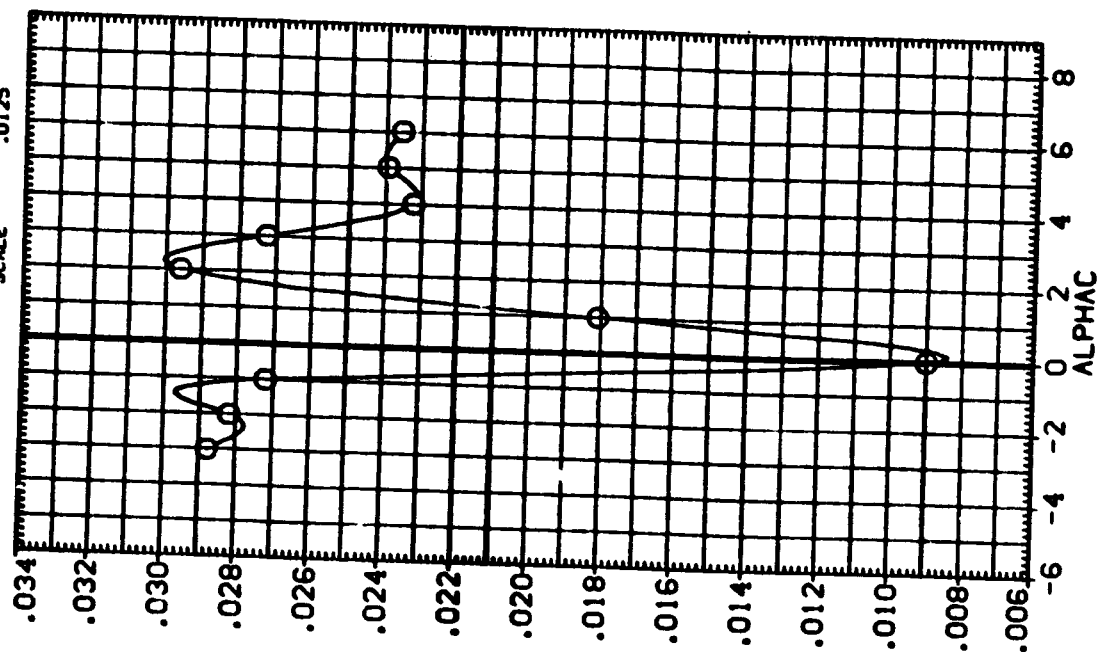
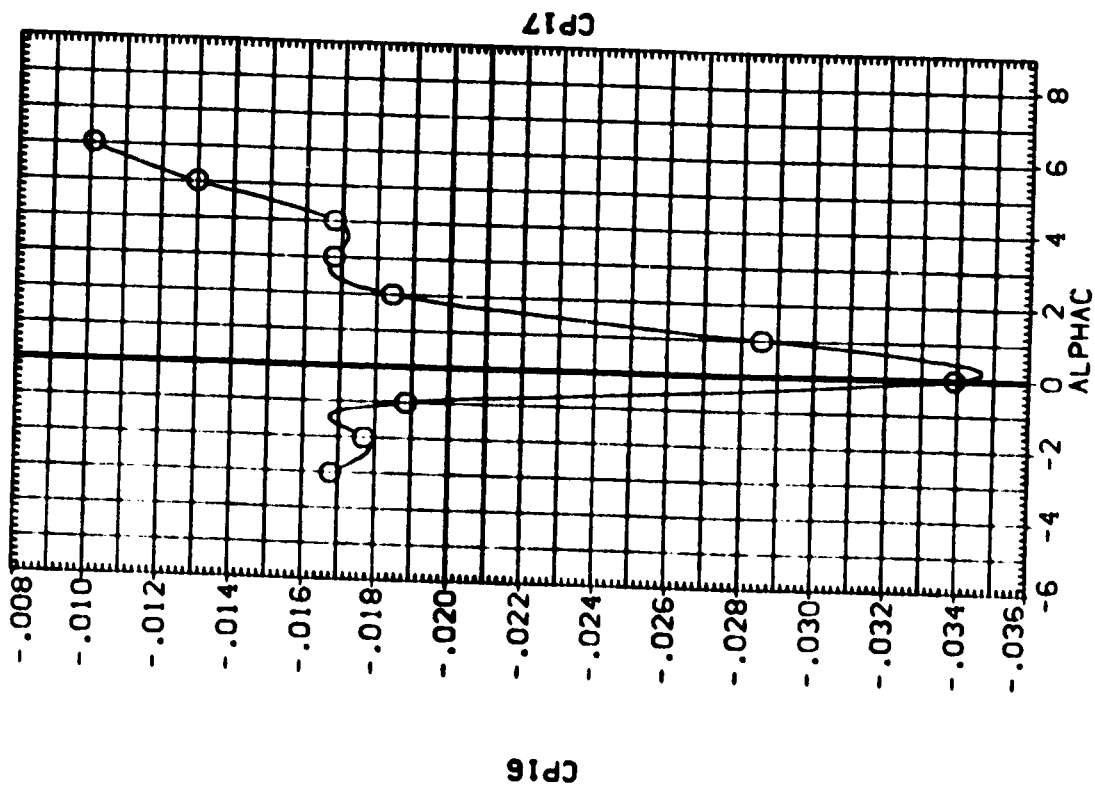


FIG.8 CARRIER ISOLATED BASE AND CAVITY PRESSURES

(A)MACH = .60



DATA SET SYMBOL CONFIGURATION DESCRIPTION
(CES820) ○ ARC14-060-1 CA23 747/1 A71 (CARRIER ISOLATED)

BETAC STAB-C RUO-C
.000 3.000 .000

REFERENCE INFORMATION
SREF 5500.0000 50. FT.
LREF 327.7500 IN.
BREF 2348.0400 IN. MC
XREF 1339.5000 IN. VC
YREF .0000 IN. VC
ZREF 190.7500 IN. ZC
SCALE .0125

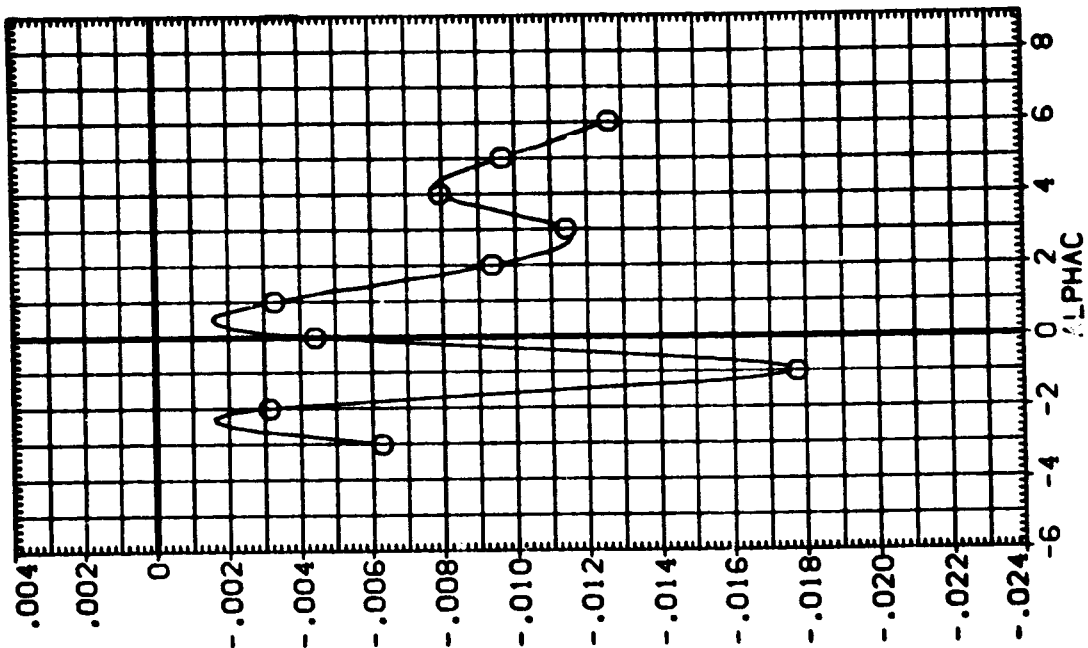
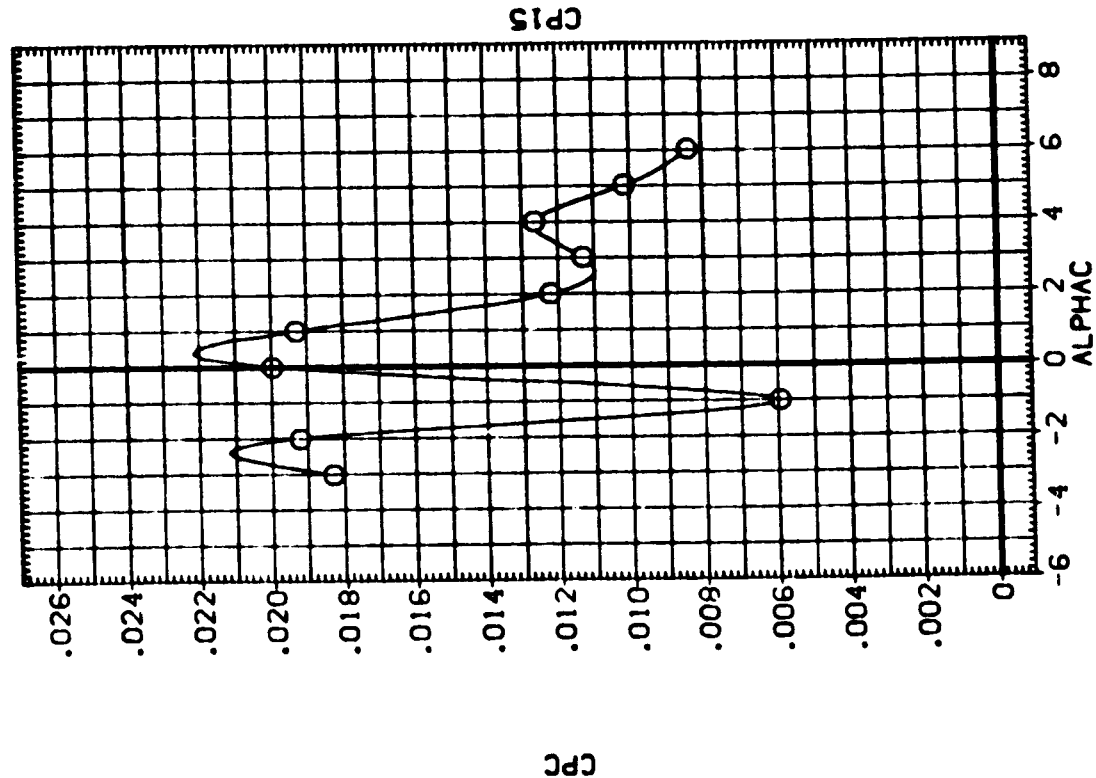


FIG.8 CARRIER ISOLATED BASE AND CAVITY PRESSURES

(A)MACH = .60

DATA SET SYMBOL: (CES820) \bigcirc ARC14-080-1 CA23 747/1 AT1 (CARRIER ISOLATED)

BETAC STAB-C RUO-C
.000 3.000 .000

REFERENCE INFORMATION
SREF 5500.0000 90.FT.
LREF 327.7800 IN.
BREF 2348.0400 IN.
XREF 1339.5000 IN.
YREF .0000 IN.
ZREF 190.7500 IN.
SCALE .0125

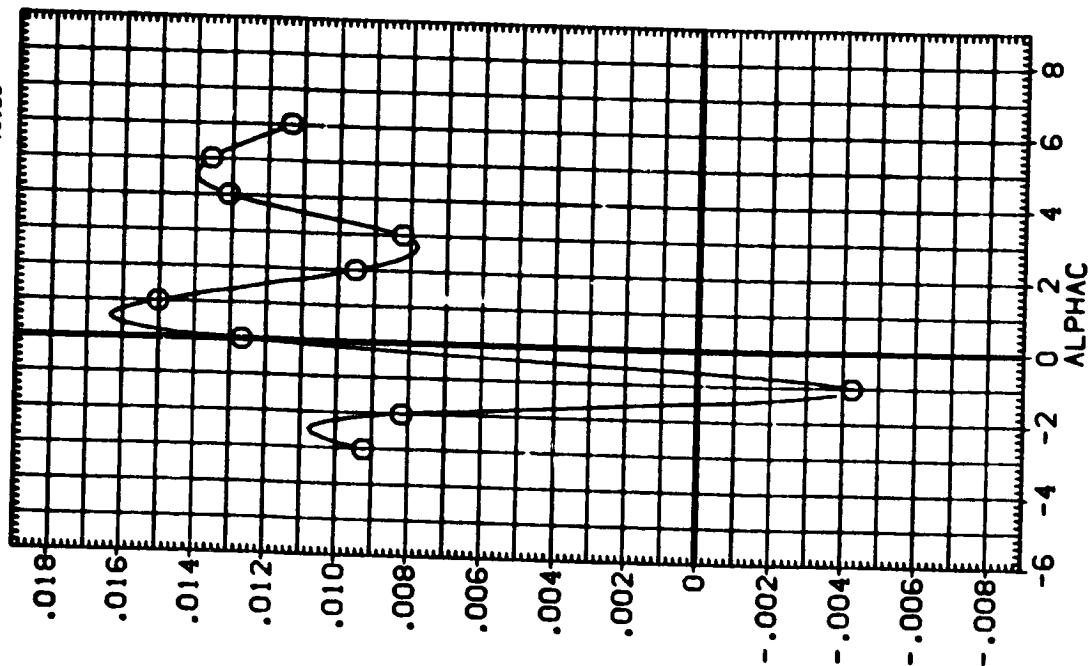
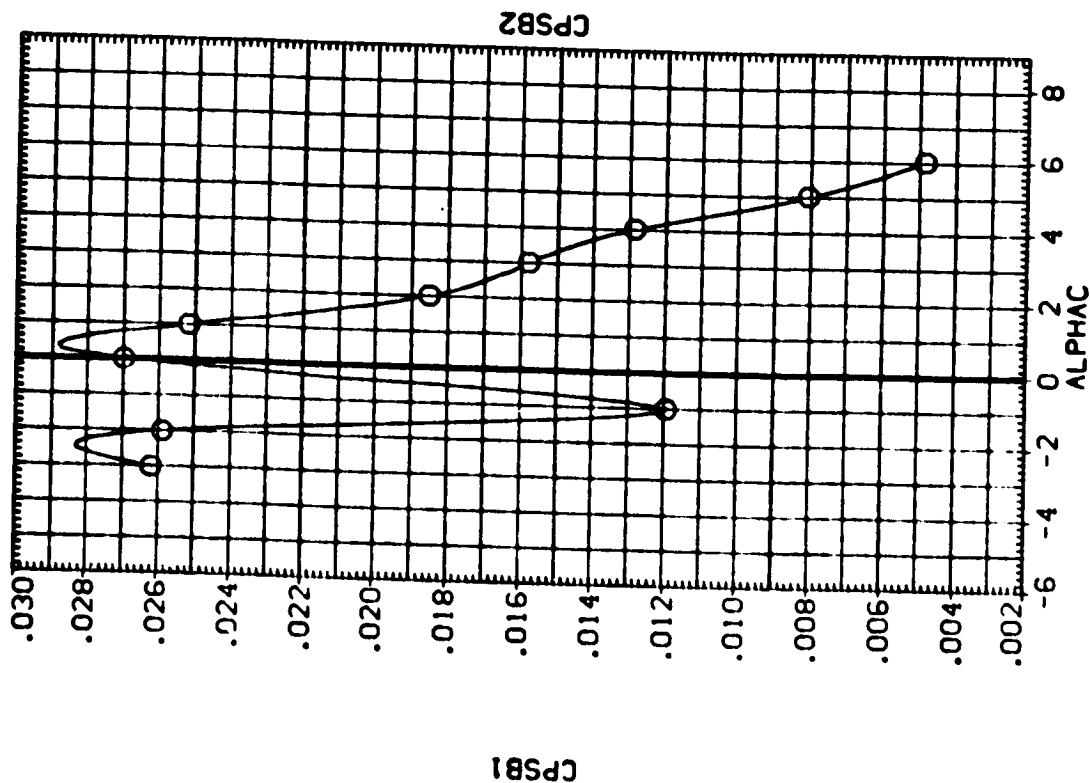


FIG.8 CARRIER ISOLATED BASE AND CAVITY PRESSURES

(A)MACH = .60

DATA SET SYMBOL (CES820) ○ CONFIGURATION DESCRIPTION ARC14-080-1 CA23 747/1 AT1 (CARRIER ISOLATED)

BETAC STAB-C RUO-C
.000 3.000 .000

REFERENCE INFORMATION
SREF 5500.0000 SQ.FT.
LREF 327.7800 IN.
BREF 2348.0400 IN.
XMRP 1339.5000 IN.
YMRP .0000 IN.
ZMRP 190.7500 IN.
SCALE .0125

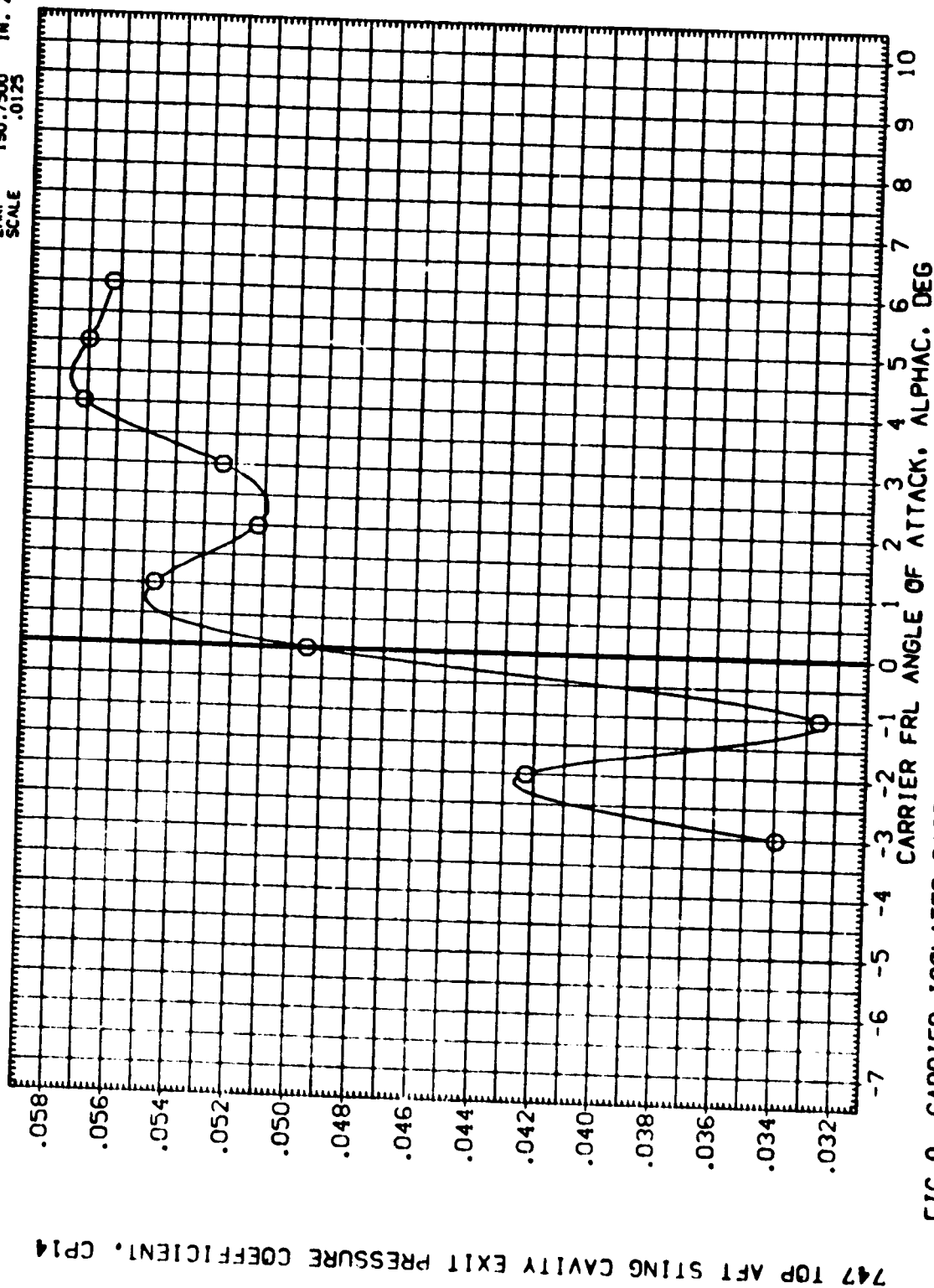


FIG.8 CARRIER ISOLATED BASE AND CAVITY PRESSURES

(A)MACH = .60

DATA SET SYMBOL (CE9820) \odot CONFIGURATION DESCRIPTION ARC14-080-1 CA23 747/1 AT1 (CARRIER ISOLATED)

BETAC STAB-C RUO-C
.000 3.000 .000

REFERENCE INFORMATION
SREF 5500.0000 SO.FT.
LREF 327.7800 IN.
BREF 2348.0400 IN.
XTRP 1338.8000 IN.
YTRP .0000 IN.
ZTRP 190.7500 IN.
SCALE .0125

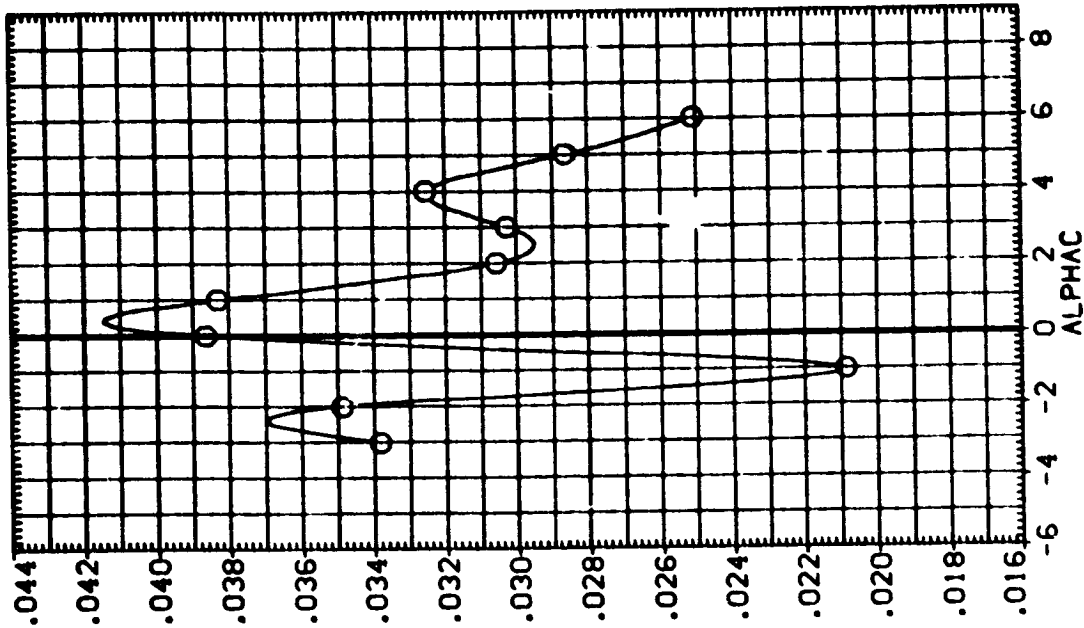
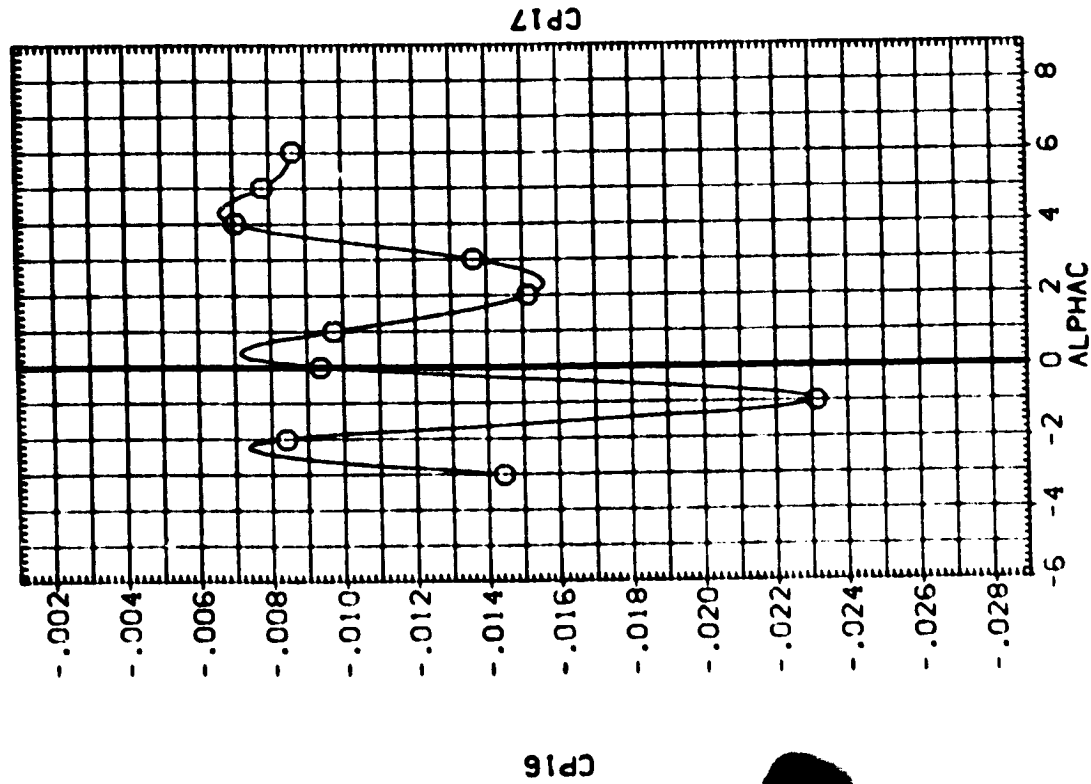


FIG.8 CARRIER ISOLATED BASE AND CAVITY PRESSURES

(A)MACH = .60



DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (CE9821) ○ APC14-080-1 CA23 747/1(-M15.6)AT1(CARRIER ISOL.)

BETAC RUO-C
 .000 .000

REFERENCE INFORMATION
 SREF 9500.0000 50.FT.
 LREF 327.7800 IN.
 BREF 2348.0400 IN.
 XMRP 1339.5000 IN.
 YMRP 190.7500 IN.
 ZMRP 190.7500 IN.
 SCALE .0125

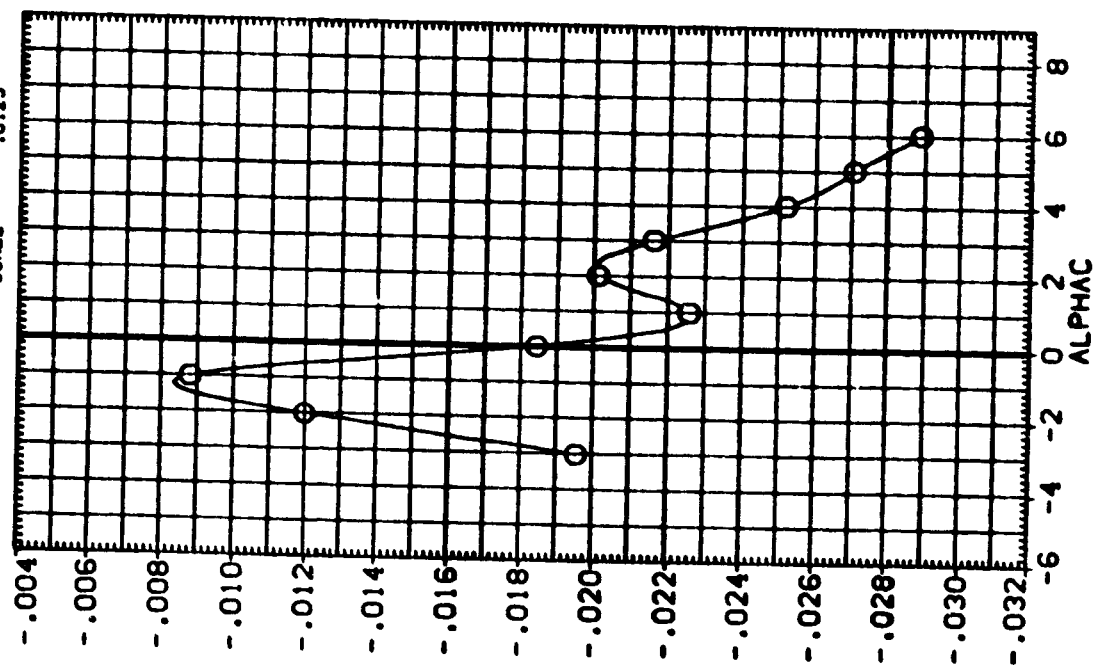
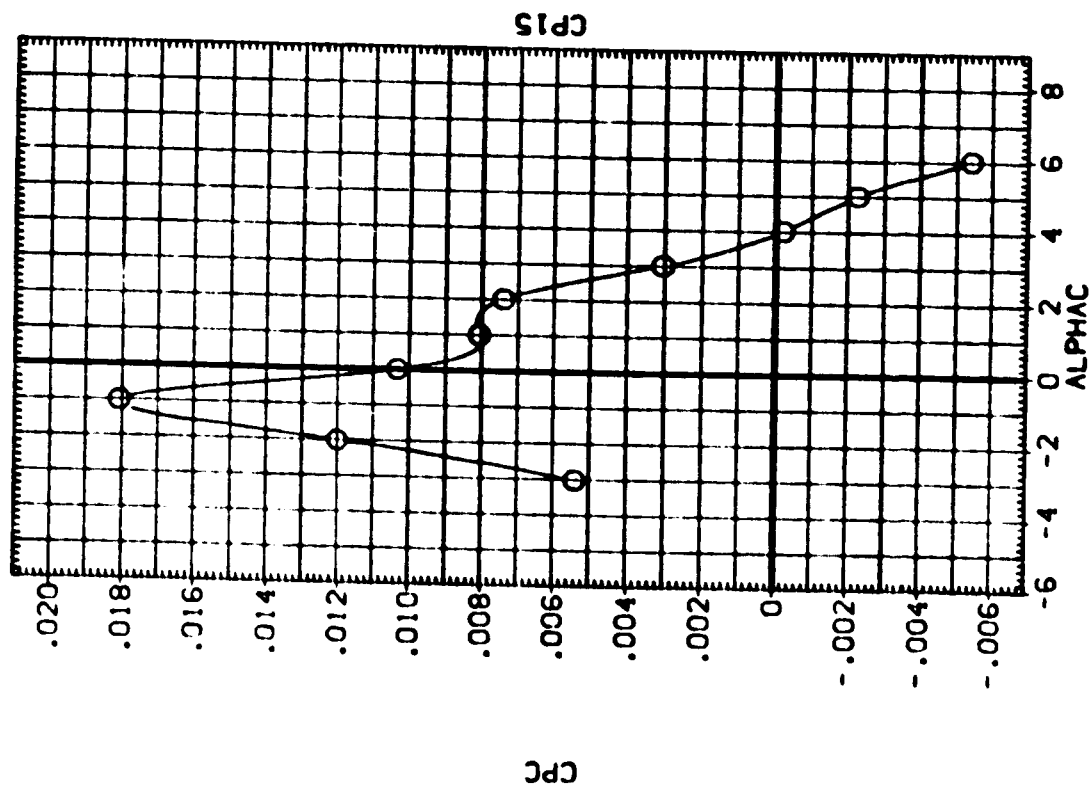


FIG.8 CARRIER ISOLATED BASE AND CAVITY PRESSURES

(A)MACH = .60

DATA SET SYMBOL (CE9821) \bigcirc ARC14-080-1 CA23 747/(-M15.6)ATI(CARRIER ISOL.)

BETAC RUO-C
.000 .000

REFERENCE INFORMATION
SREF 5500.0000 50. FT.
LREF 327.7800 IN.
BREF 2348.0400 IN.
YMRP 1339.9000 IN. WC
ZMRP 190.7500 IN. ZC
SCALE .0125

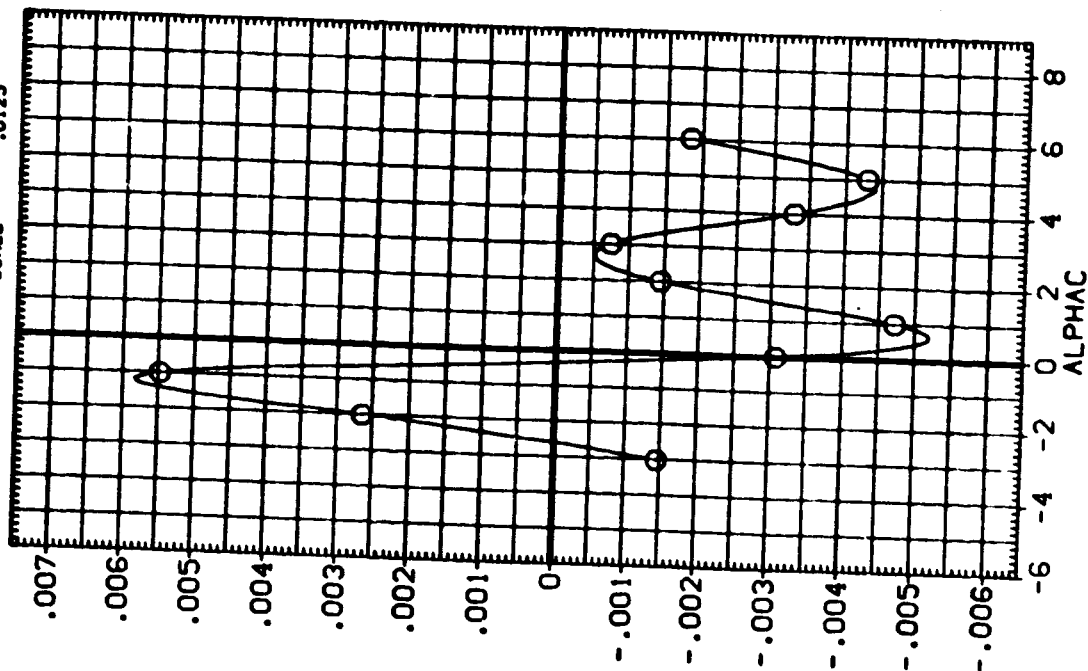
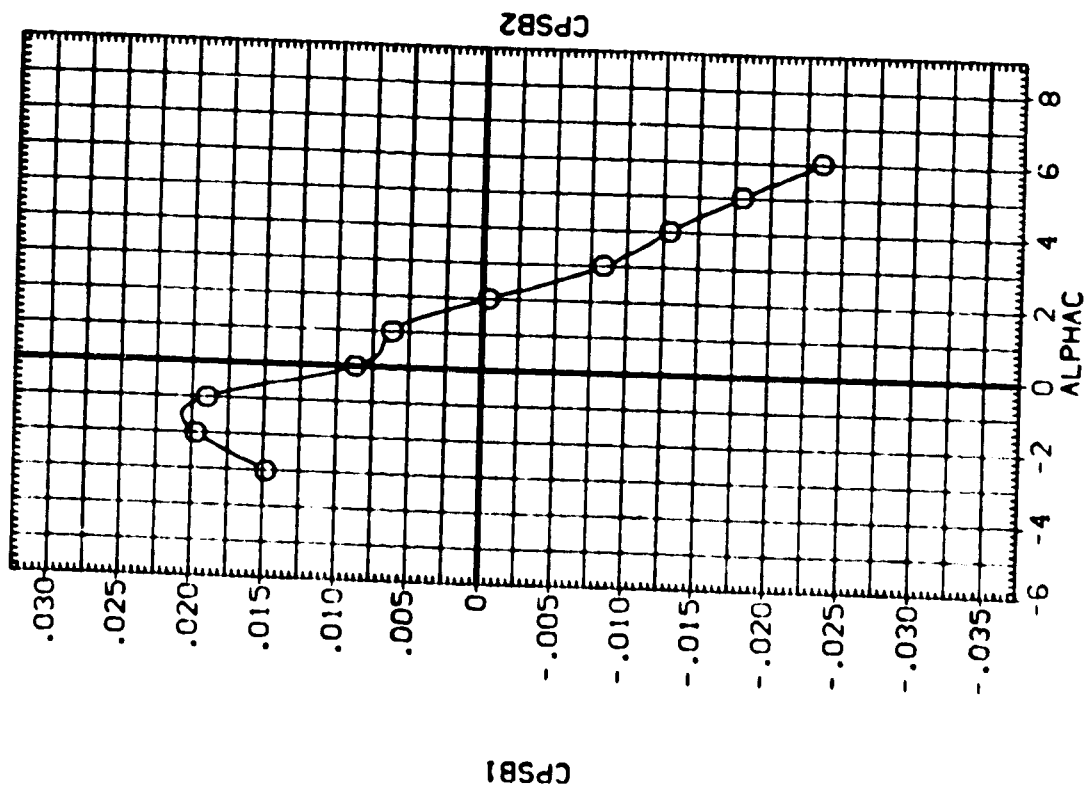


FIG.8 CARRIER ISOLATED BASE AND CAVITY PRESSURES
(A)MACH = .60



DATA SET SYMBOL (CE9821) \bigcirc CONFIGURATION DESCRIPTION ARC14-080-1 CA23 747/1C-H15.6JAT1(CARRIER ISOL.)

BETAC RUD-C .000 .000

REFERENCE INFORMATION SREF 5500.0000 50.FT. LREF 327.7800 IN. BREF 2348.0400 IN. XC 1335.9000 IN. VC .0000 IN. YC 190.7500 IN. ZC .0125

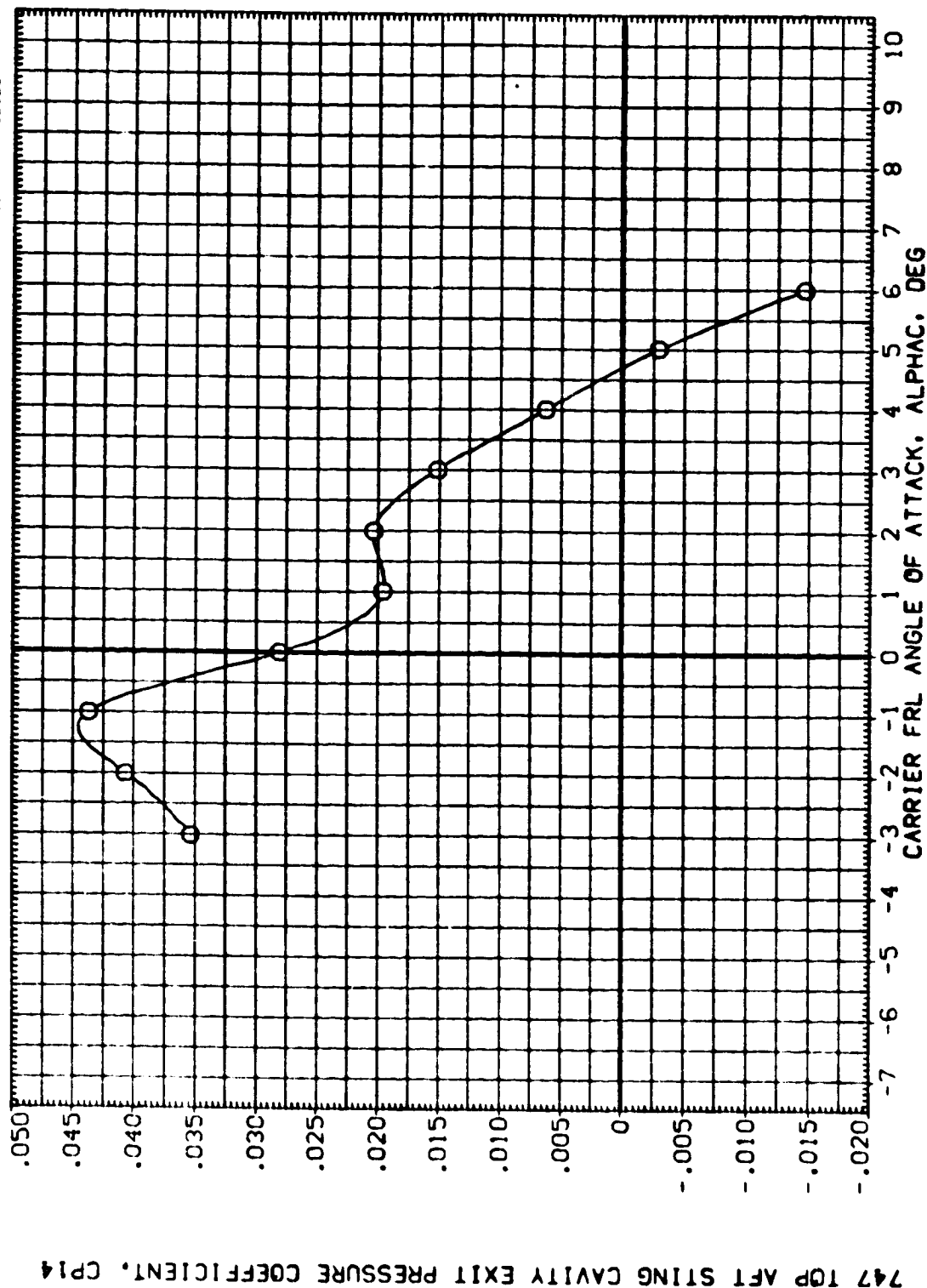


FIG.8 CARRIER ISOLATED BASE AND CAVITY PRESSURES

(A)MACH = .60

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

DATA SET SYMBOL (CE9021) ○

CONFIGURATION DESCRIPTION
ARC14-080-1 CA23 747/1C-H15.61ATICARRIER ISOL.)

BETAC RUD-C
.000 .000

REFERENCE INFORMATION
SREF 5500.0000 SQ.FT.
LREF 327.7800 IN.
BREF 2348.0400 IN.
XMRP 1339.5000 IN.
YMRP 190.7500 IN.
ZMRP 190.7500 IN.
SCALE .0125

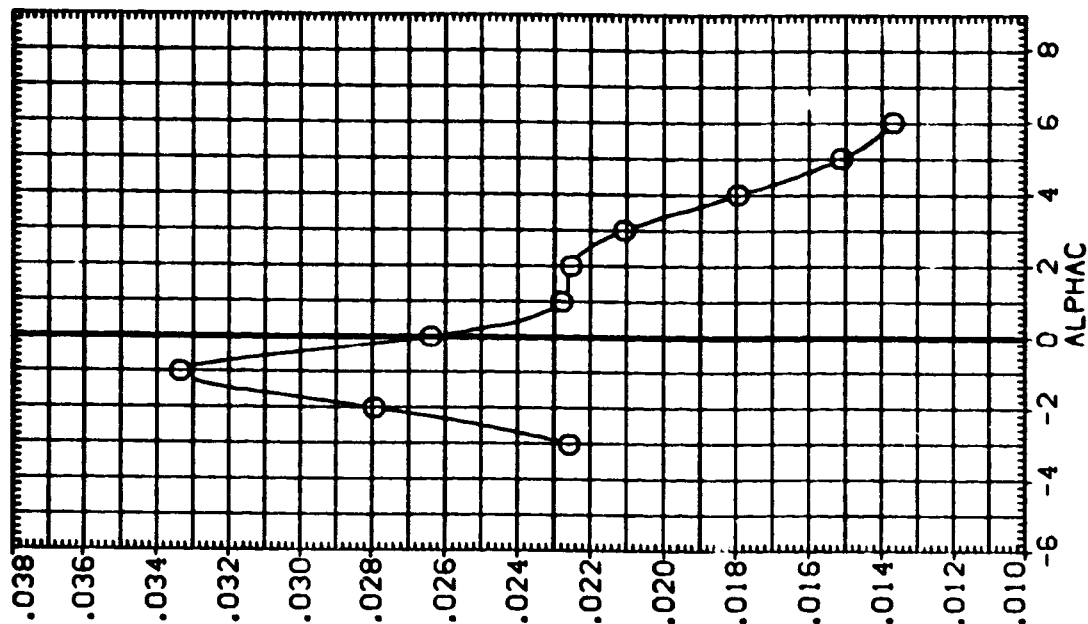
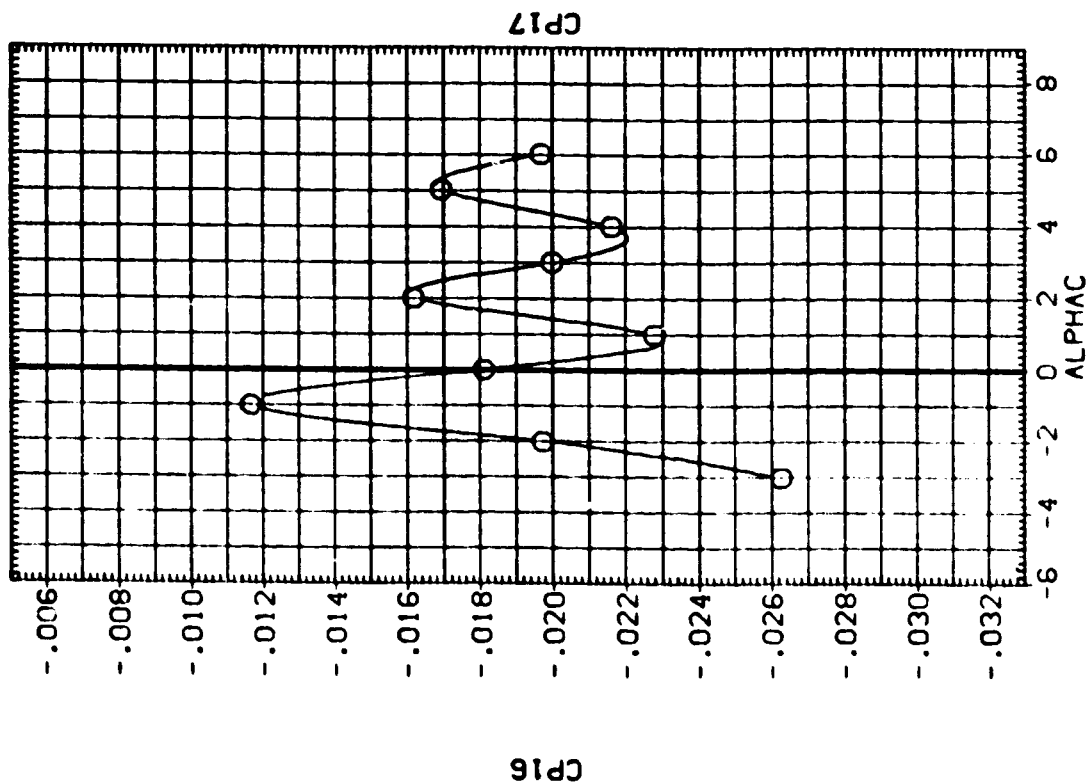


FIG.8 CARRIER ISOLATED BASE AND CAVITY PRESSURES

(A)MACH = .60



DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (YESF47) ARC14-080-1 CA23 747/1 01 ATI (CAR,MATED)
 (YESF24) ARC14-080-1 CA23 747/1 01 ATI (CAR,MATED)
 (YESF37) ARC14-080-1 CA23 747/1 01 ATI (CAR,MATED)

STAB-C RUO-C ELV-0 IADRB
 5.000 .000 5.000 4.000
 5.000 .000 5.000 6.000
 5.000 .000 5.000 8.000

REFERENCE INFORMATION
 SREF 9500.0000 88 JY.
 LREF 327.7600 IN.
 DREF 2348.0400 IN.
 XMRP 1339.5000 IN.
 YMRP 180.7500 IN.
 ZMRP 180.7500 IN.
 SCALE .0125

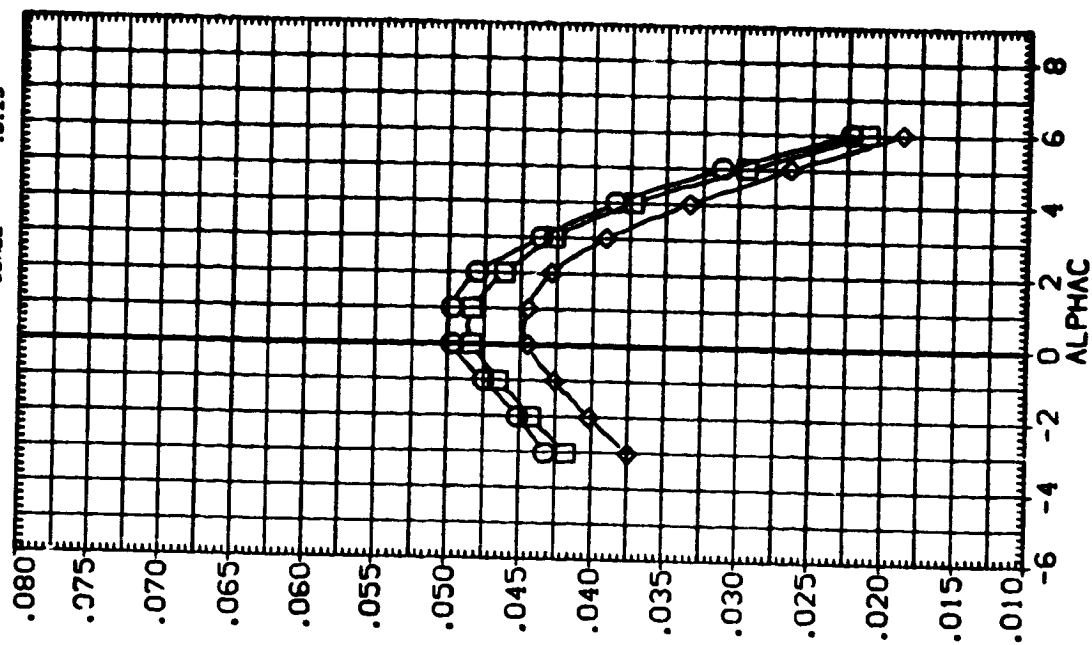
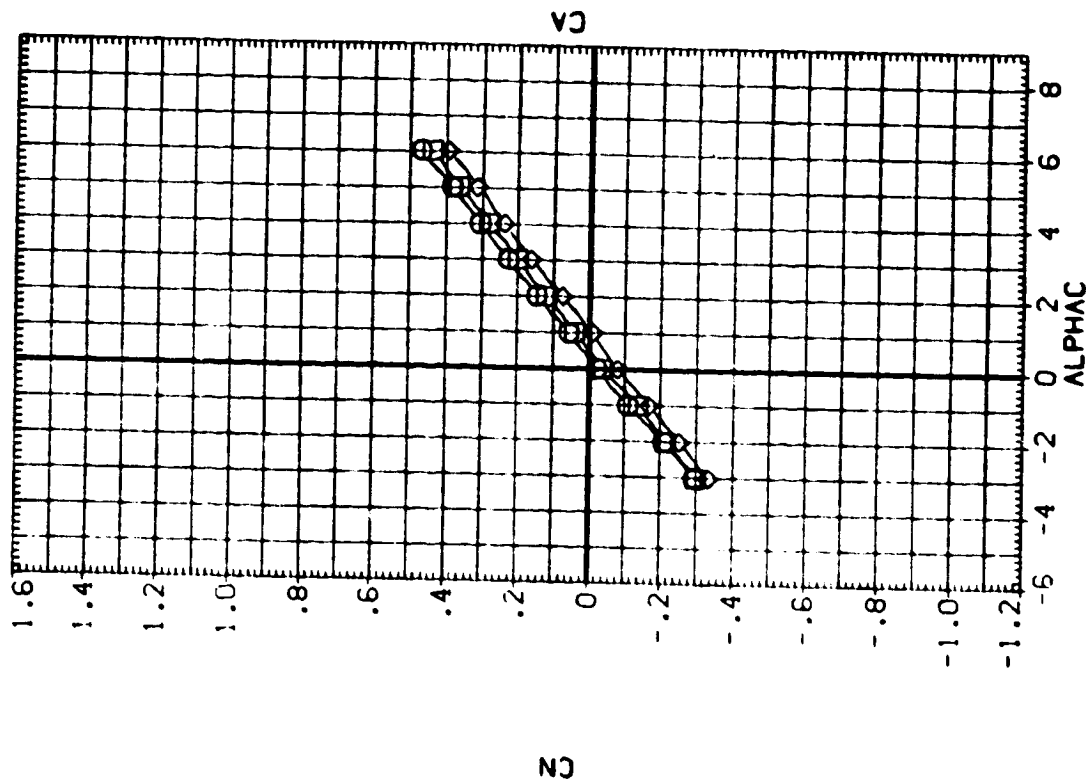


FIG. 9 CARRIER MATED AERO CHARACTERISTICS (INTERPOLATED I-ORB)

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	STAB-C	RUD-C	ELV-0	IACOB	REFERENCE INFORMATION
(VE9F47)	ARC14-080-1 CA23 747/1 01 AT1 (CAR.MATED)	5.000	.000	5.000	4.000	SREF 5500.0000 SO.FT.
(VE9F24)	ARC14-080-1 CA23 747/1 01 AT1 (CAR.MATED)	5.000	.000	5.000	6.000	LREF 327.7800 IN.
(VE9F37)	ARC14-080-1 CA23 747/1 01 AT1 (CAR.MATED)	5.000	.000	5.000	8.000	GRF 2348.0400 IN.
						XREF 1335.9000 IN.
						YREF .0000 IN.
						ZREF 180.7500 IN.
						SCALE .0125

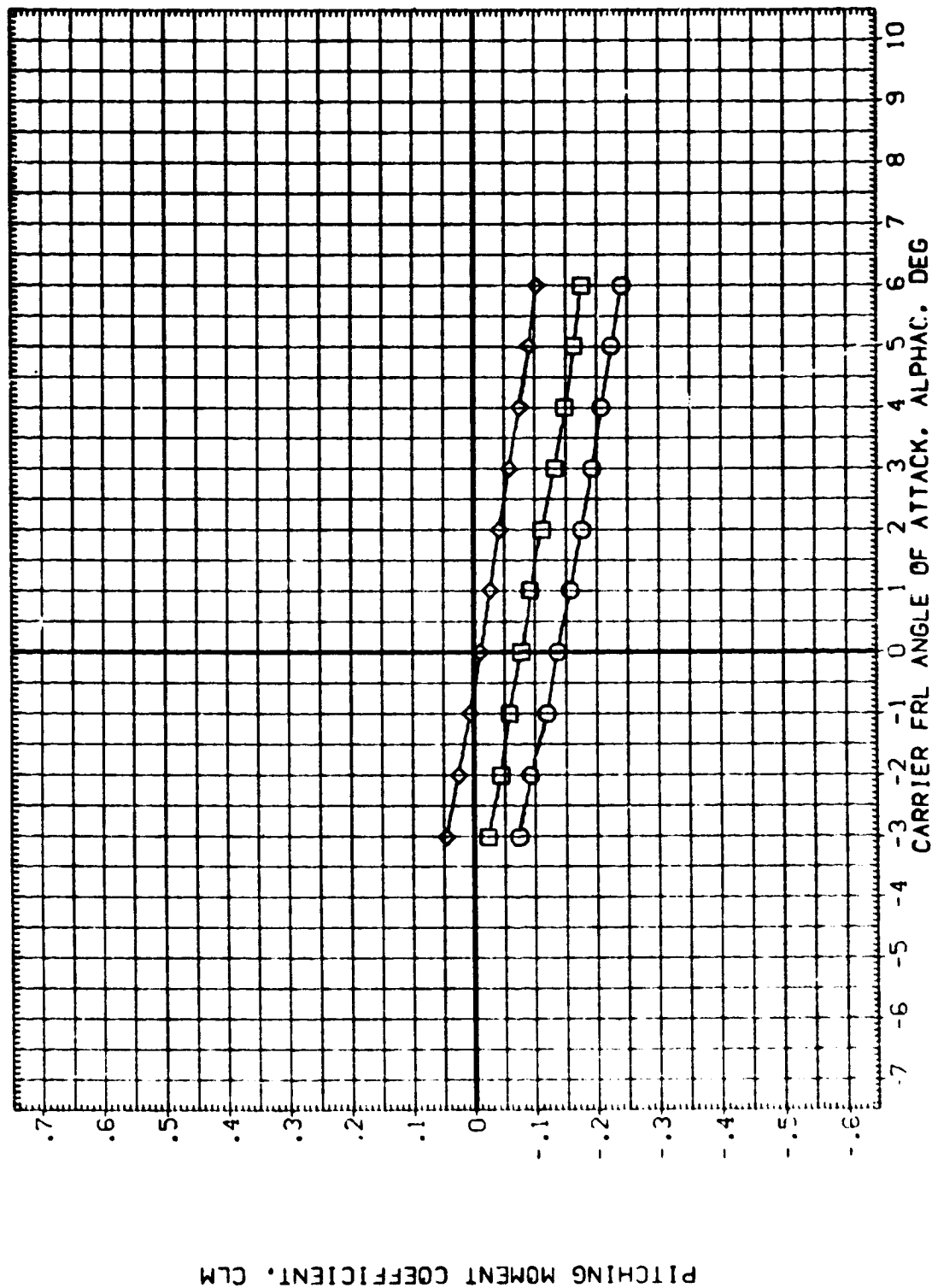


FIG. 9 CARRIER MATED AERO CHARACTERISTICS (INTERPOLATED I-ORB)

(MACH = .60)



DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (YES 47) ARC14-080-1 CA23 747/1 01 AT1 (CAR.MATED)
 (YES 24) ARC14-080-1 CA23 747/1 01 AT1 (CAR.MATED)
 (YES 37) ARC14-080-1 CA23 747/1 01 AT1 (CAR.MATED)

STAB-C RUJ-C ELV-0 IAOB
 5.000 .000 5.000 4.000
 5.000 .000 5.000 6.000
 5.000 .000 5.000 8.000

REFERENCE INFORMATION
 SREF 5500.0000 99.5T.
 LREF 327.7800 IN.
 SREF 2348.0400 IN.
 SREF 1339.5000 IN. VC
 YRP .0000 IN. VC
 ZRP 190.7500 IN. VC
 SCALE .0125

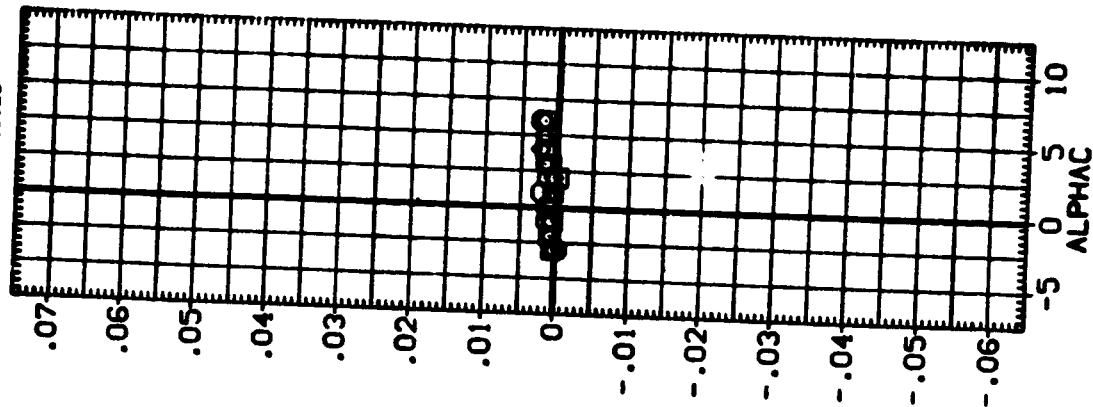
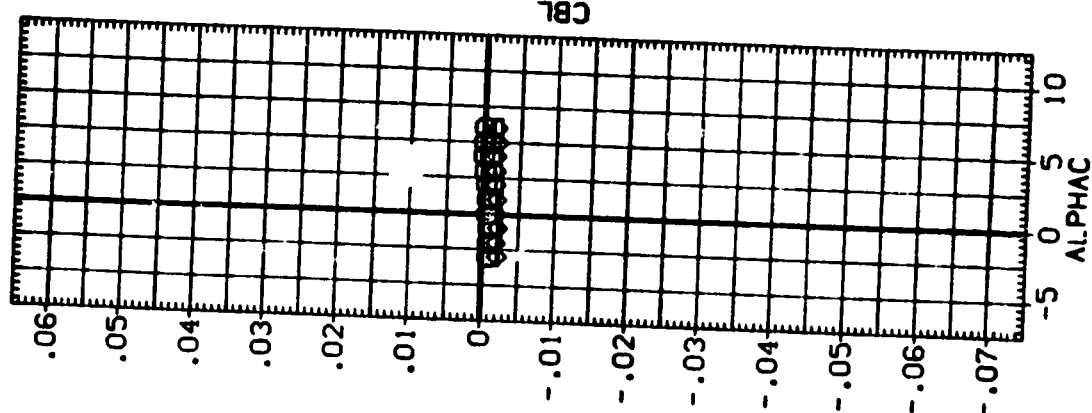
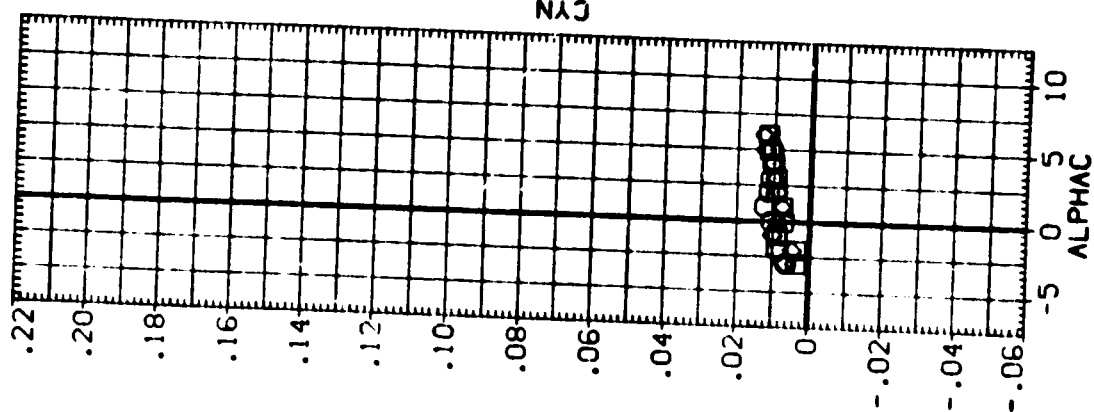


FIG. 9 CARRIER MATED AERO CHARACTERISTICS (INTERPOLATED I-OR8)
 (A) MACH = .60

DATA SET SYMBOL: CONF (GURATION DESCRIPTION)

ARC14-080-1 CA23 747/1 01 ATI (CAR.MATED)
 ARC14-080-1 CA23 747/1 01 ATI (CAR.MATED)
 ARC14-080-1 CA23 747/1 01 ATI (CAR.MATED)

STAB-C RUO-C ELV-O IAOB

5.000 .000 5.000 4.000
 5.000 .000 5.000 6.000
 5.000 .000 5.000 8.000

REFERENCE INFORMATION
 SREF 9500.0000 90.FT.
 LREF 327.7800 IN.
 BREF 2348.0400 IN.
 XMRP 1329.9000 IN.
 YMRP .0000 IN.
 ZMRP 190.7500 IN.
 SCALE .0125

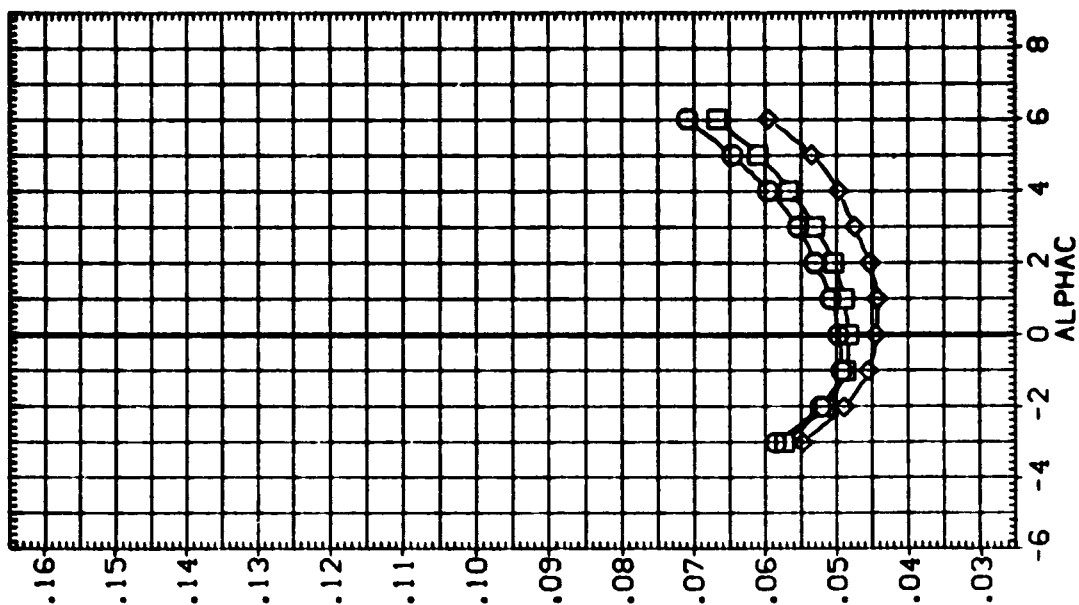
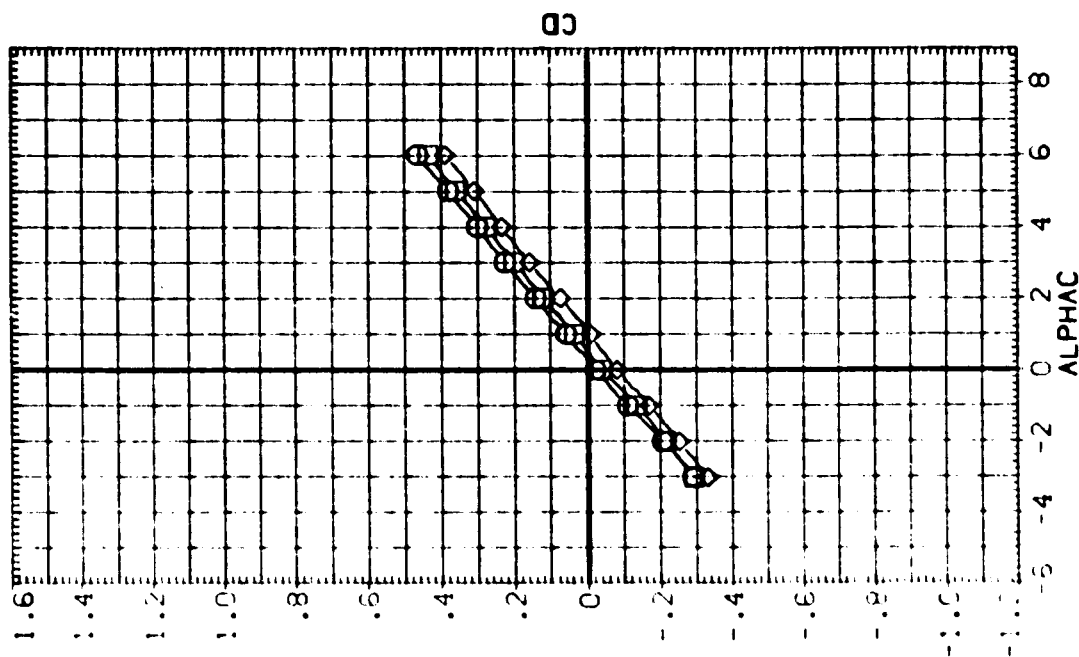


FIG. 9 CARRIER MATED AERO CHARACTERISTICS (INTERPOLATED I-ORB)

(A)MAC = .50

DATA SET SYMBOL CONFIGURATION DESCRIPTION

ARC14-080-1	CA23 747/1	O1	ATI	(CAR,MATED)
ARC14-080-1	CA23 747/1	O1	ATI	(CAR,MATED)
ARC14-080-1	CA23 747/1	O1	ATI	(CAR,MATED)

STAB-C RUO-C ELV-O IAOOB

5.000	10.000	5.000	4.000
5.000	10.000	5.000	6.000
5.000	10.000	5.000	8.000

REFERENCE INFORMATION

SREF	9500.0000	99.5 FT.
LREF	327.7800	IN.
BREF	2346.0400	IN.
YMRP	1379.5000	IN.
YMRP	190.7500	IN.
SCALE	.0125	IN.

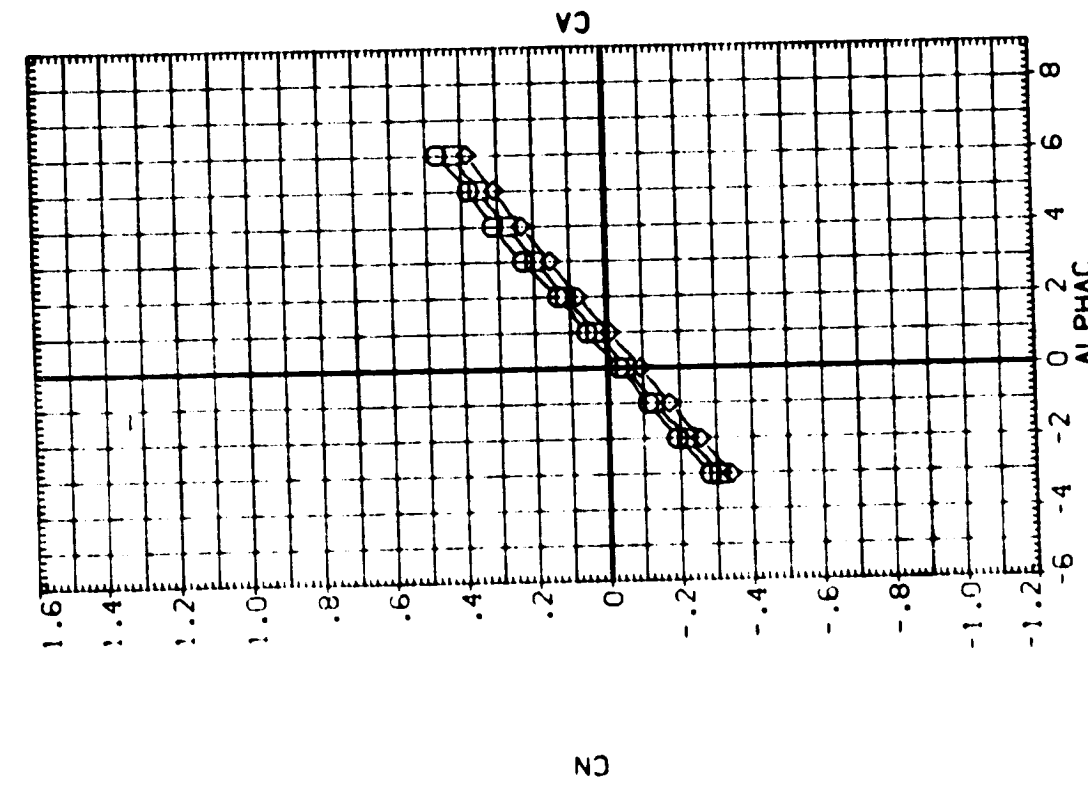
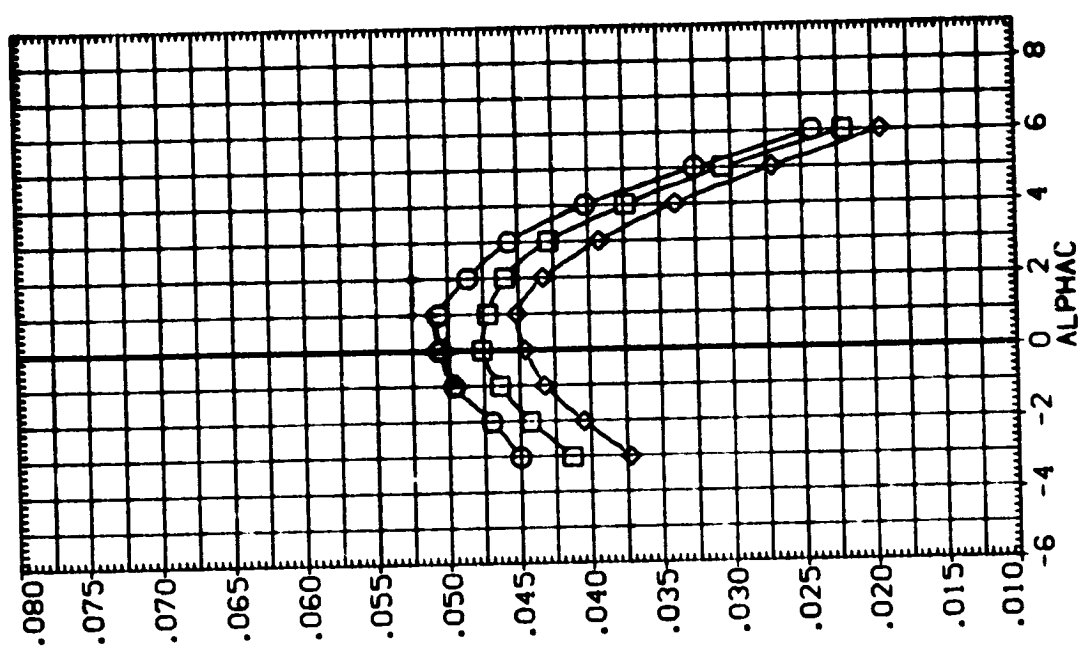


FIG. 9 CARRIER MATED AERO CHARACTERISTICS (INTERPOLATED I-086)

(A) MACH = .60

U K
A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

CONFIGURATION	DESCRIPTION
ARC14-C80-1	CA23 747/1 01 AT1 (CAR.MATED)
ARC14-C80-1	CA23 747/1 01 AT1 (CAR.MATED)
ARC14-C80-1	CA23 747/1 01 AT1 (CAR.MATED)

STAB-C	RUB-C	ELV-0	IASRB
5,000	10,000	5,000	4,000
5,000	10,000	5,000	6,000
5,000	10,000	5,000	8,000

REFERENCE INFORMATION	
SREF	5500.0000 SO.FT.
LREF	327.7800 IN.
BREF	2348.0400 IN.
XWRP	1339.5000 IN. WC
YWRP	.0000 IN. VC
ZWRP	180.7500 IN. ZC
SCALE	.0125

Figure 1 is a line graph with a grid. The horizontal axis (x-axis) is labeled with values from -7 to 10 in increments of 1. The vertical axis (y-axis) is labeled with values from -0.7 to 0.7 in increments of 0.1. There are three data series plotted, each represented by a different marker and a line connecting the points. The first series, marked with diamonds, represents $\gamma = 0.01$. The second series, marked with squares, represents $\gamma = 0.02$. The third series, marked with circles, represents $\gamma = 0.03$. All three series show a similar trend: they start at low α values for negative β , cross the $\alpha = 0$ line at $\beta = 0$, and then increase sharply for positive β . The curves for different γ values are very close to each other, with the $\gamma = 0.01$ curve being slightly higher than the others for positive β .

β	α ($\gamma = 0.01$)	α ($\gamma = 0.02$)	α ($\gamma = 0.03$)
-3	-0.05	-0.08	-0.10
-2	-0.02	-0.05	-0.07
-1	0.00	-0.02	-0.04
0	0.00	0.00	0.00
1	0.02	0.01	0.01
2	0.05	0.04	0.03
3	0.10	0.08	0.06
4	0.15	0.12	0.10
5	0.20	0.16	0.14
6	0.25	0.20	0.18

FIG. 9 CARRIER MATED AERO CHARACTERISTICS (INTERPOLATED I-OR8)

$$C_9 = -3\alpha C_1$$



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	STAB-C	RUD-C	ELV-0	IAOR8	REFERENCE INFORMATION
(YESF 48)	ARC14-080-1 CA23 747/1 01 AT1 (CAR.MATED)	5.000	10.000	5.000	4.000	SREF 5500.0000 90.FT.
(YESF 27)	ARC14-080-1 CA23 747/1 01 AT1 (CAR.MATED)	5.000	10.000	5.000	6.000	LREF 327.7800 IN.
(YESF 38)	ARC14-080-1 CA23 747/1 01 AT1 (CAR.MATED)	5.000	10.000	5.000	8.000	BREF 2348.0400 IN.
						MREF 1339.5000 IN. MC
						VMRP 190.7500 IN. VC
						ZMRP 190.7500 IN. ZC
						SCALE .0125

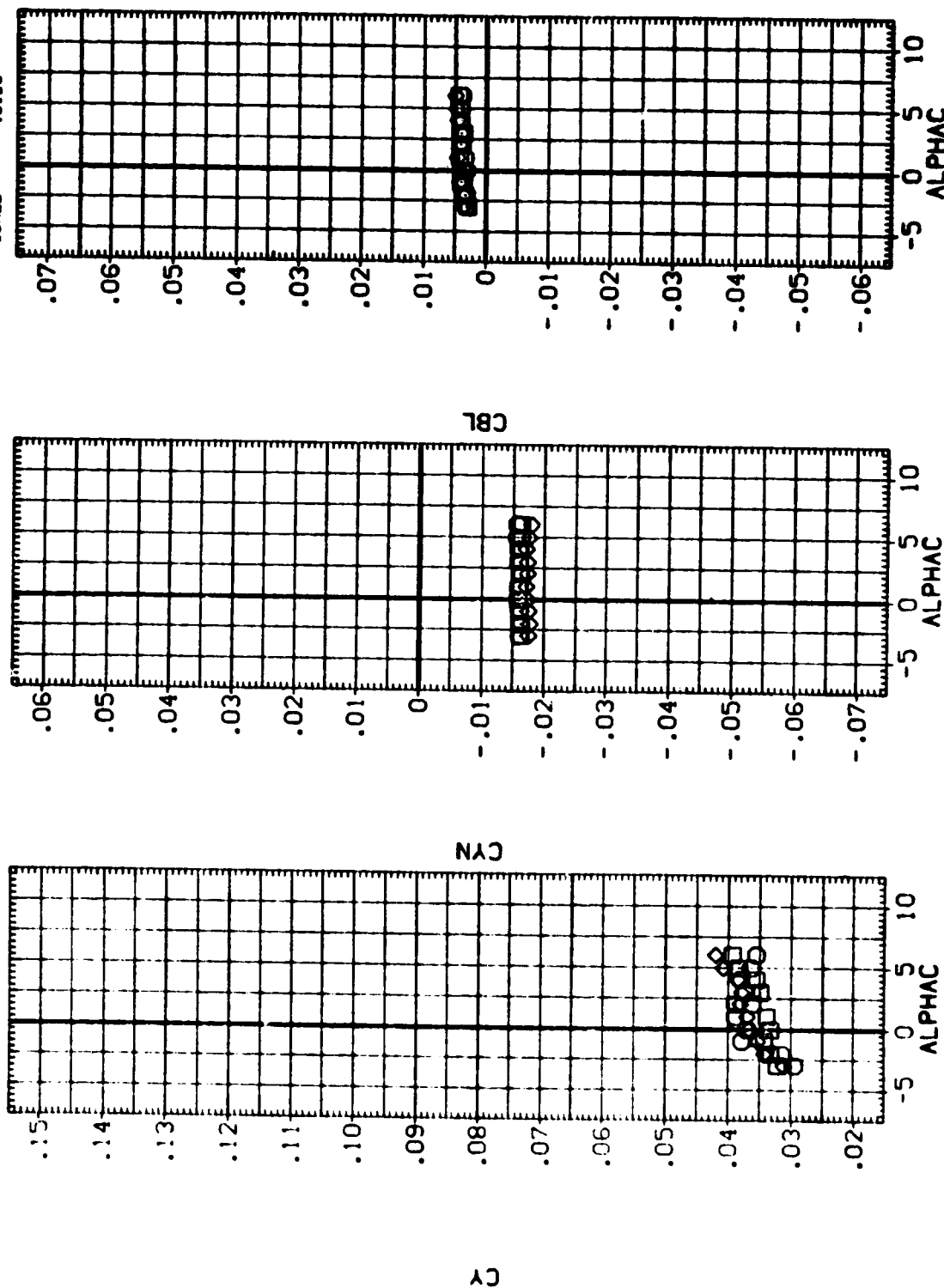


FIG. 9 CARRIER MATED AERO CHARACTERISTICS (INTERPOLATED I-QR8)

(A)MACH = .60

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

DATA SET SYMBOL
(YES) 48
(YES) 7
(YES) 8

CONFIGURATION DESCRIPTION
ARC14-080-1 CA23 747/1 01 AT1 (CAR.MATED)
ARC14-080-1 CA23 747/1 01 AT1 (CAR.MATED)
ARC14-080-1 CA23 747/1 01 AT1 (CAR.MATED)

STAB-C RUD-C ELV-0 IAOB8
5.000 10.000 5.000 4.000
5.000 10.000 5.000 6.000
5.000 10.000 5.000 8.000

REFERENCE INFORMATION
SREF 5500.0000 IN. MC
LREF 327.7800 IN. MC
BREF 2346.0400 IN. MC
XPROP 1335.5000 IN. VC
ZPROP 190.7500 IN. VC
SCALE .0125

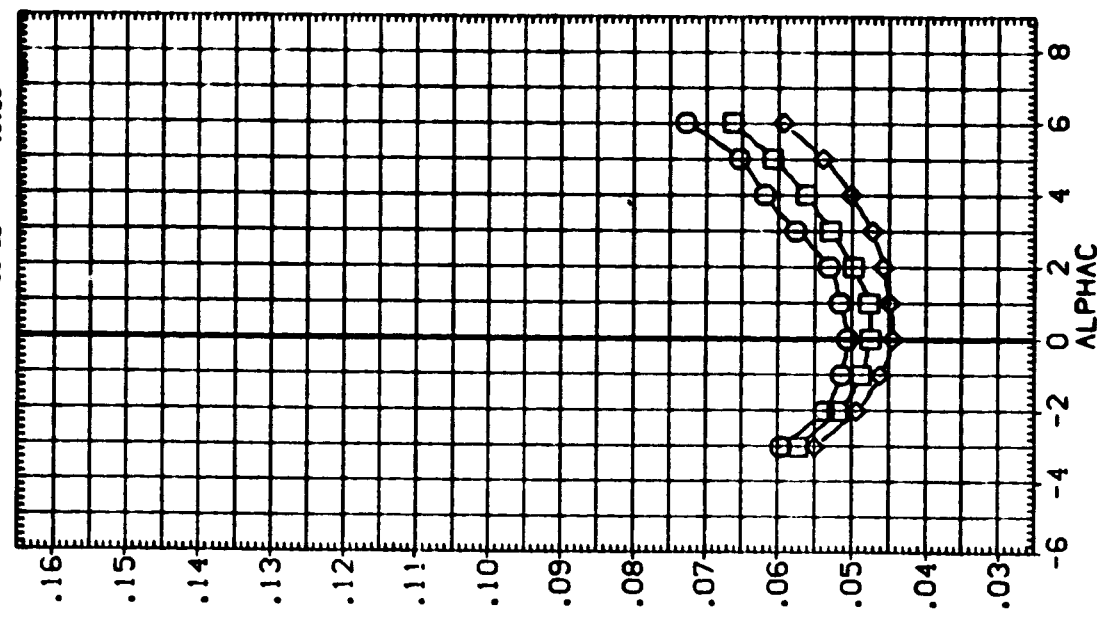
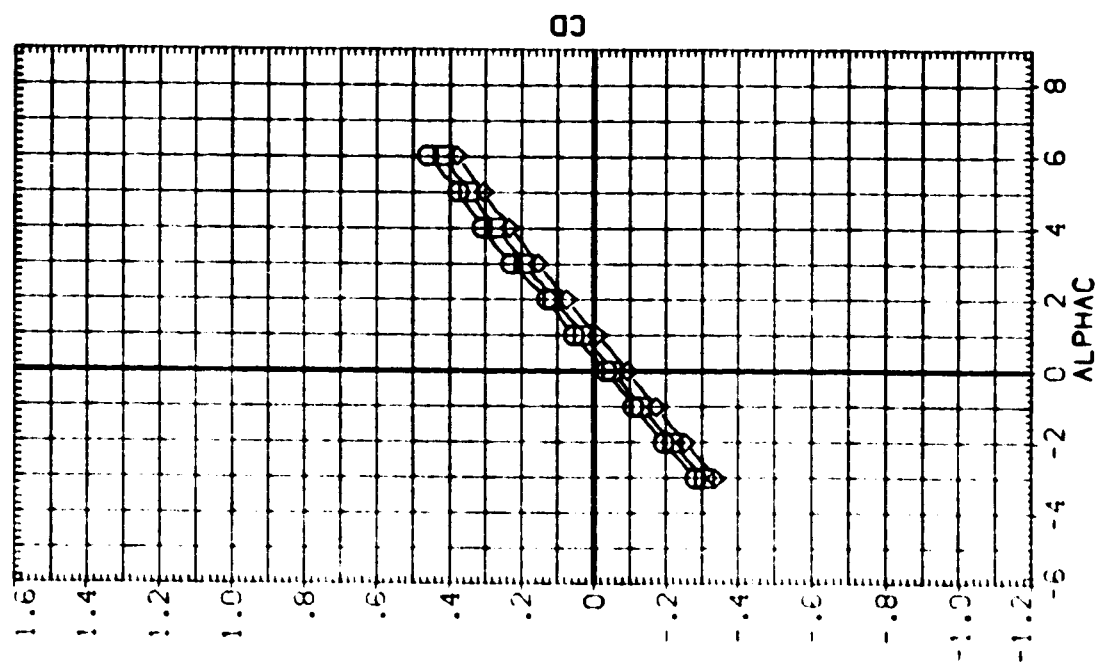


FIG. 9 CARRIER MATED AERO CHARACTERISTICS (INTERPOLATED I-0R8)

(A)MAC = .60



DATA SET SYMBOL: **000**
 (YES 49)
 (YES 29)
 (YES 19)

CONFIGURATION DESCRIPTION
 ARC14-080-1 CA23 747/1 01 AT1 (CAR.MATED)
 ARC14-080-1 CA23 747/1 01 AT1 (CAR.MATED)
 ARC14-080-1 CA23 747/1 01 AT1 (CAR.MATED)

STAB-C RUD-C ELV-0 IADRB
 -1.000 .000 5.000 4.000
 -1.000 .000 5.000 6.000
 -1.000 .000 5.000 8.000

REFERENCE INFORMATION
 SREF 5500.0000 SQ.FT.
 LREF 327.7800 IN.
 BREF 2348.0400 IN.
 XMRP 1339.5000 IN. MC
 YMRP .0000 IN. VC
 ZMRP 190.7500 IN. ZC
 SCALE .0125

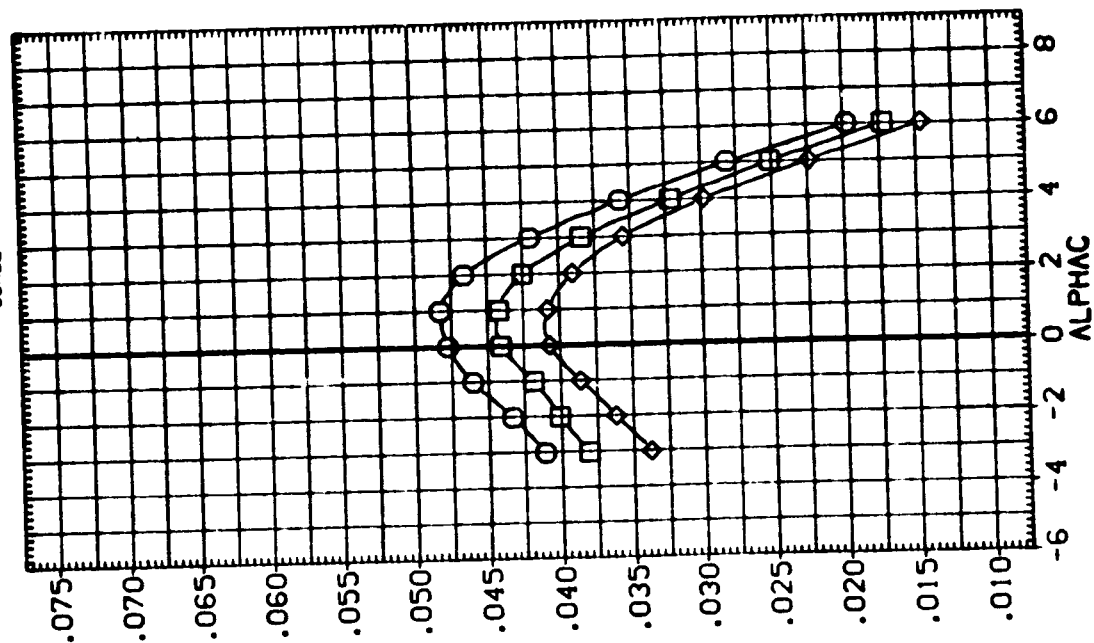
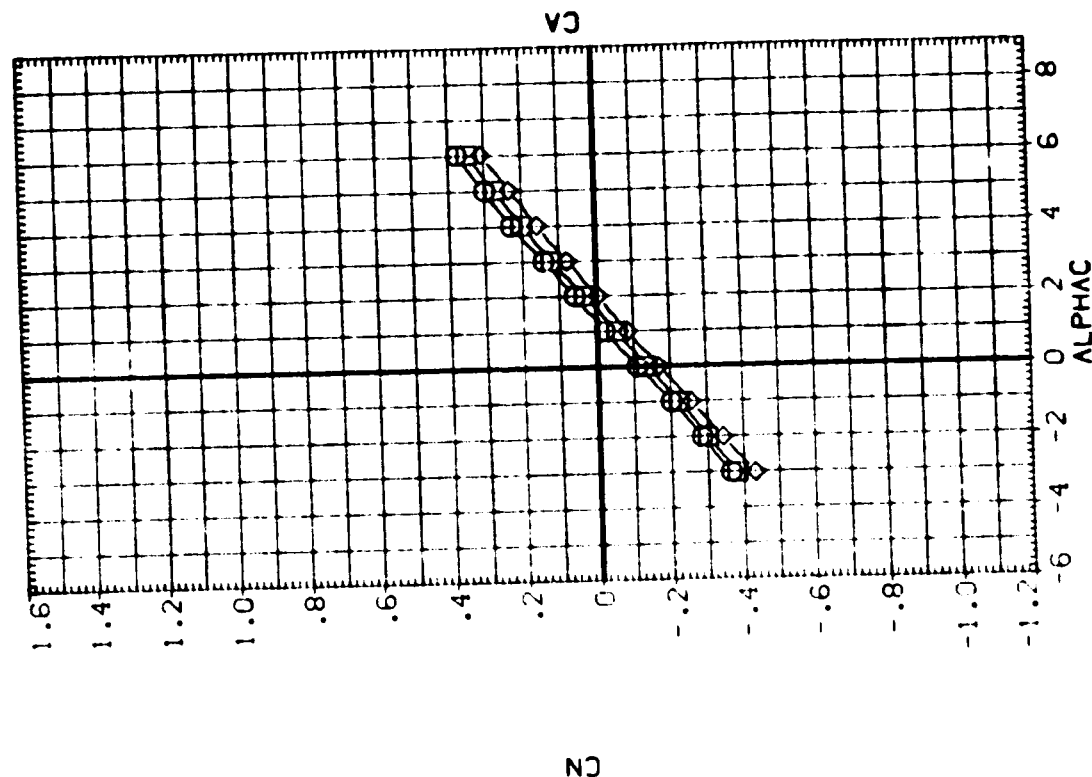


FIG. 9 CARRIER MATED AERO CHARACTERISTICS (INTERPOLATED I-08B)

(A)MACH = .60

DATA SET SYMBOL
 (YES) 49
 (YES) 23
 (YES) 12

CONFIGURATION DESCRIPTION
 ARC 14-080-1 CA23 747/1 01 ATI (CAR.MATED)
 ARC 14-080-1 CA23 747/1 01 ATI (CAR.MATED)
 ARC 14-080-1 CA23 747/1 01 ATI (CAR.MATED)

STAB-C RUD-C ELV-0 IAOB8
 -1.000 .000 5.000 4.000
 -1.000 .000 5.000 6.000
 -1.000 .000 5.000 8.000

REFERENCE INFORMATION
 SREF 5500.0000 SQ.FT.
 LREF 327.7800 IN.
 BREF 2348.0400 IN.
 XMRP 1339.9000 IN.
 YMRP 190.7500 IN.
 ZMRP 190.7500 IN.
 SCALE .0125

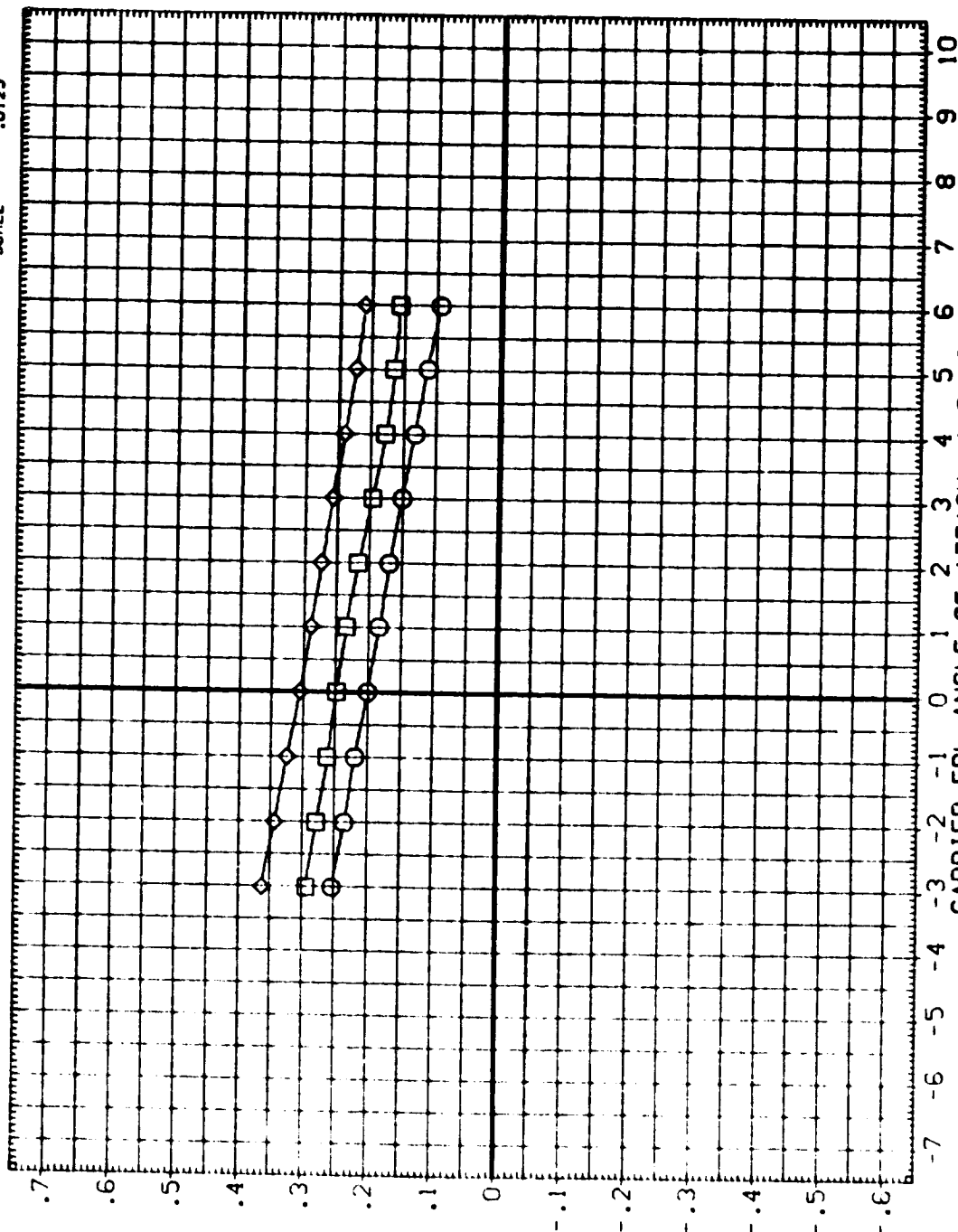


FIG. 9 CARRIER MATED AERO CHARACTERISTICS (INTERPOLATED I-ORB)

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	STAB-C	RUD-C	ELV-O	IAORS	REFERENCE INFORMATION
(YES 49)	ARC14-080-1 CA23 747/1 01 AT1 (CAR.MATED)	-1.000	.000	5.000	4.000	SREF 5500.0000 98.57.
(YES 29)	ARC14-080-1 CA23 747/1 01 AT1 (CAR.MATED)	-1.000	.000	5.000	6.000	LREF 327.7800 IN.
(YES 35)	ARC14-080-1 CA23 747/1 01 AT1 (CAR.MATED)	-1.000	.000	5.000	8.000	BREF 2348.0400 IN.
						XMRP 1339.9000 IN. VC
						YMRP .0000 IN. VC
						ZMRP 190.7500 IN. VC
						SCALE .0125

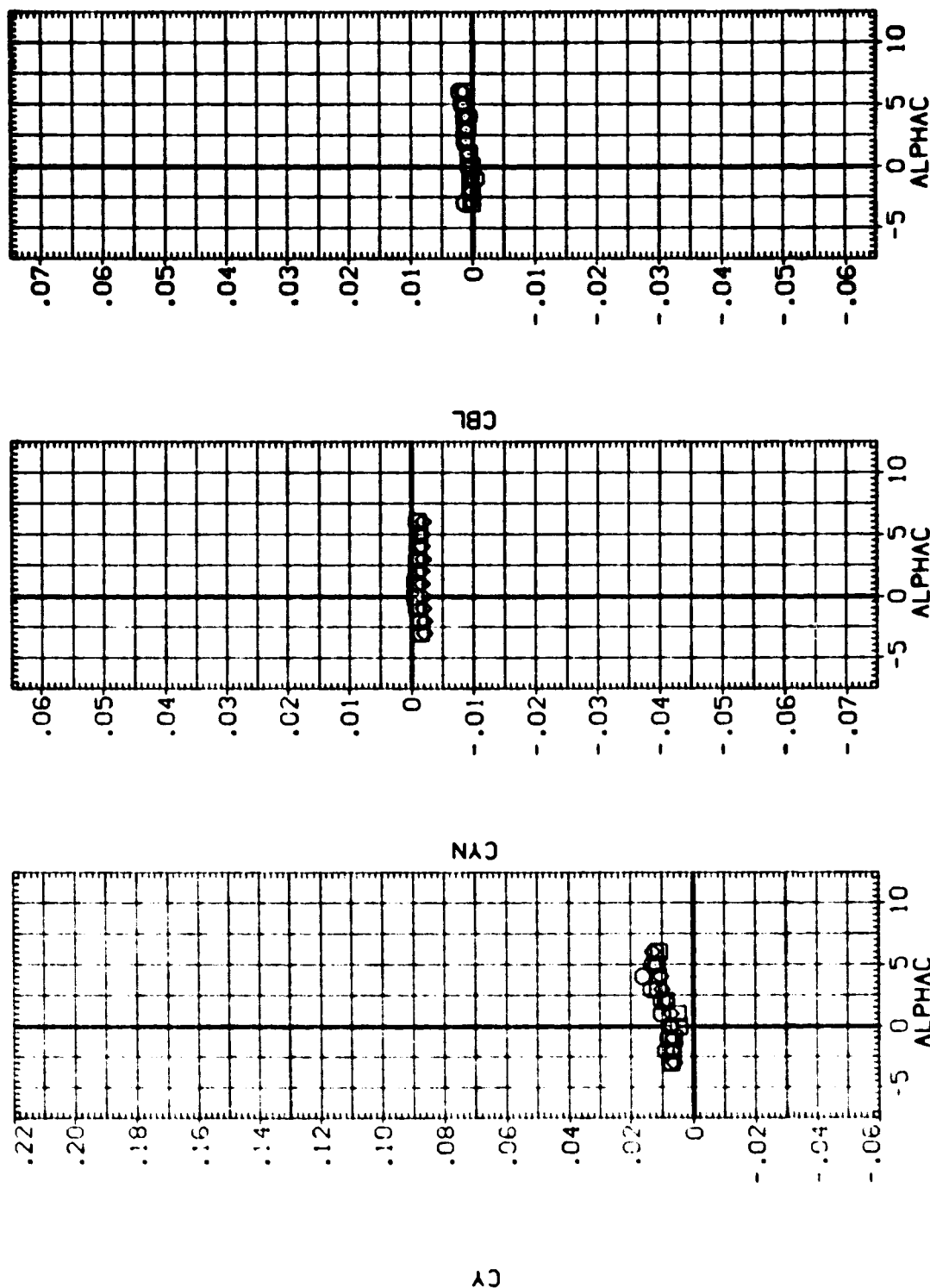


FIG. 9 CARRIER MATED AERO CHARACTERISTICS (INTERPOLATED I-OR8)

(A)MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (YES) 45) ARC14-080-1 CA23 747/1 01 AT1 (CAR,MATED)
 (YES) 23) ARC14-080-1 CA23 747/1 01 AT1 (CAR,MATED)
 (YES) 39) ARC14-080-1 CA23 747/1 01 AT1 (CAR,MATED)

STAB-C RUO-C ELV-O IAOB
 -1.000 .000 5.000 4.000
 -1.000 .000 5.000 6.000
 -1.000 .000 5.000 8.000

REFERENCE INFORMATION
 SREF 5500.0000 50.FT.
 LREF 327.7800 IN.
 BREF 2348.0400 IN.
 XREF 1339.5000 IN.
 YREF .0000 IN.
 ZREF 190.7500 IN.
 SCALE .0125

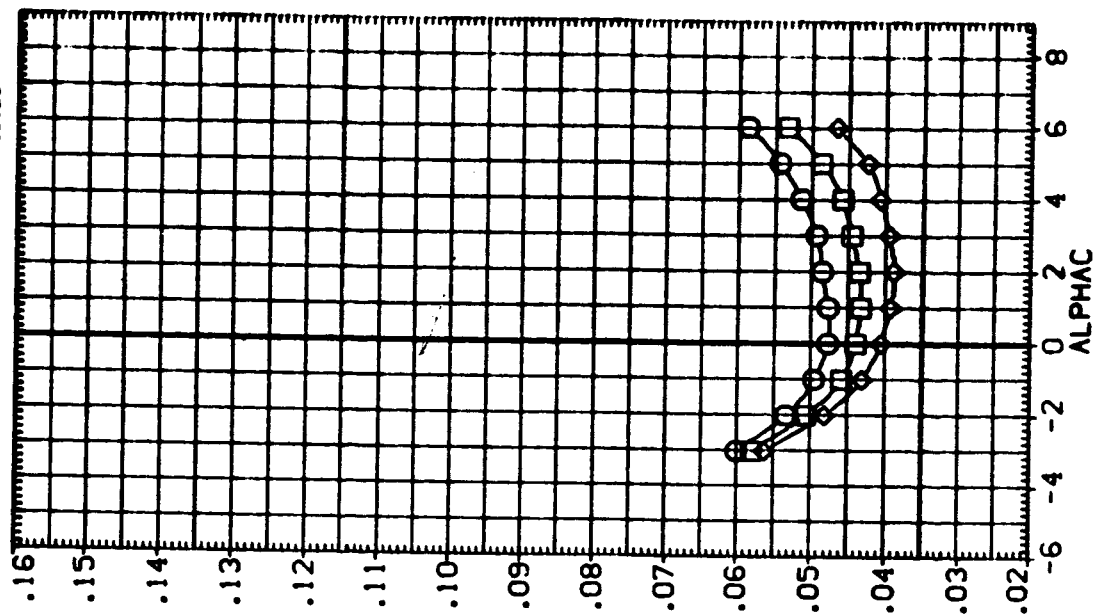
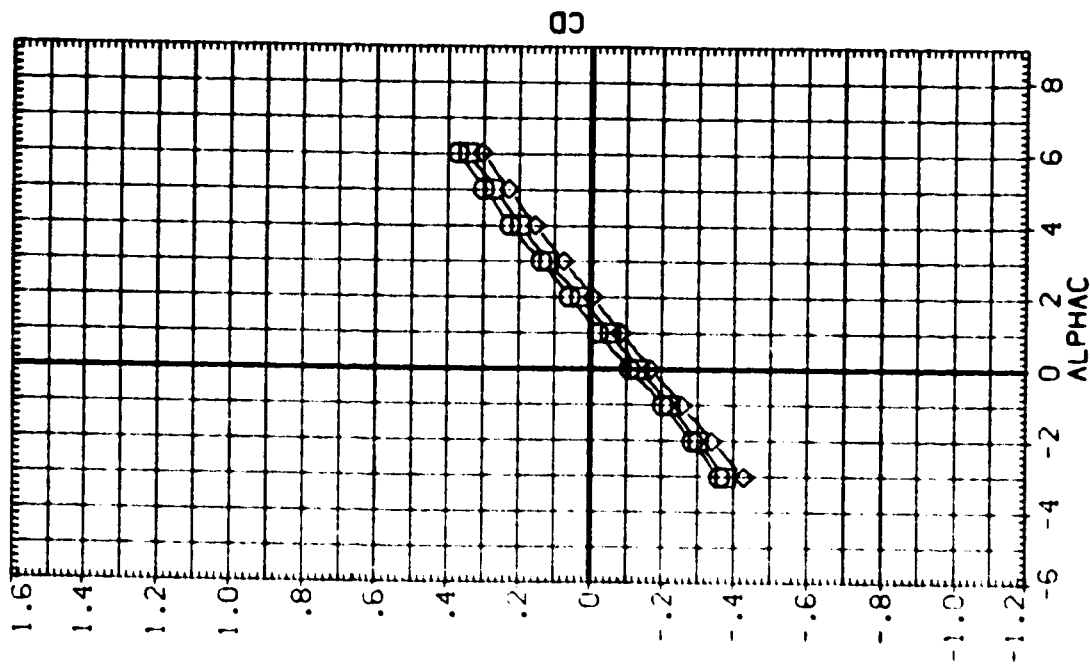


FIG. 9 CARRIER MATED AERO CHARACTERISTICS (INTERPOLATED I-ORB)

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	STAB-C	RUD-C	ELV-0	IAOR8	REFERENCE INFORMATION
(YES 50)	ARC14-080-1 CA23 747/1 01 AT1 (CAR.MATED)	-1.000	.000	10.000	4.000	5500.0000 IN. 90. FT.
(YES 30)	ARC14-080-1 CA23 747/1 01 AT1 (CAR.MATED)	-1.000	.000	10.000	6.000	327.7800 IN.
(YES 40)	ARC14-080-1 CA23 747/1 01 AT1 (CAR.MATED)	-1.000	.000	10.000	9.000	2348.0400 IN. 2C
						1339.5000 IN. 1C
						190.7500 IN. 2C
						SCALE .0125

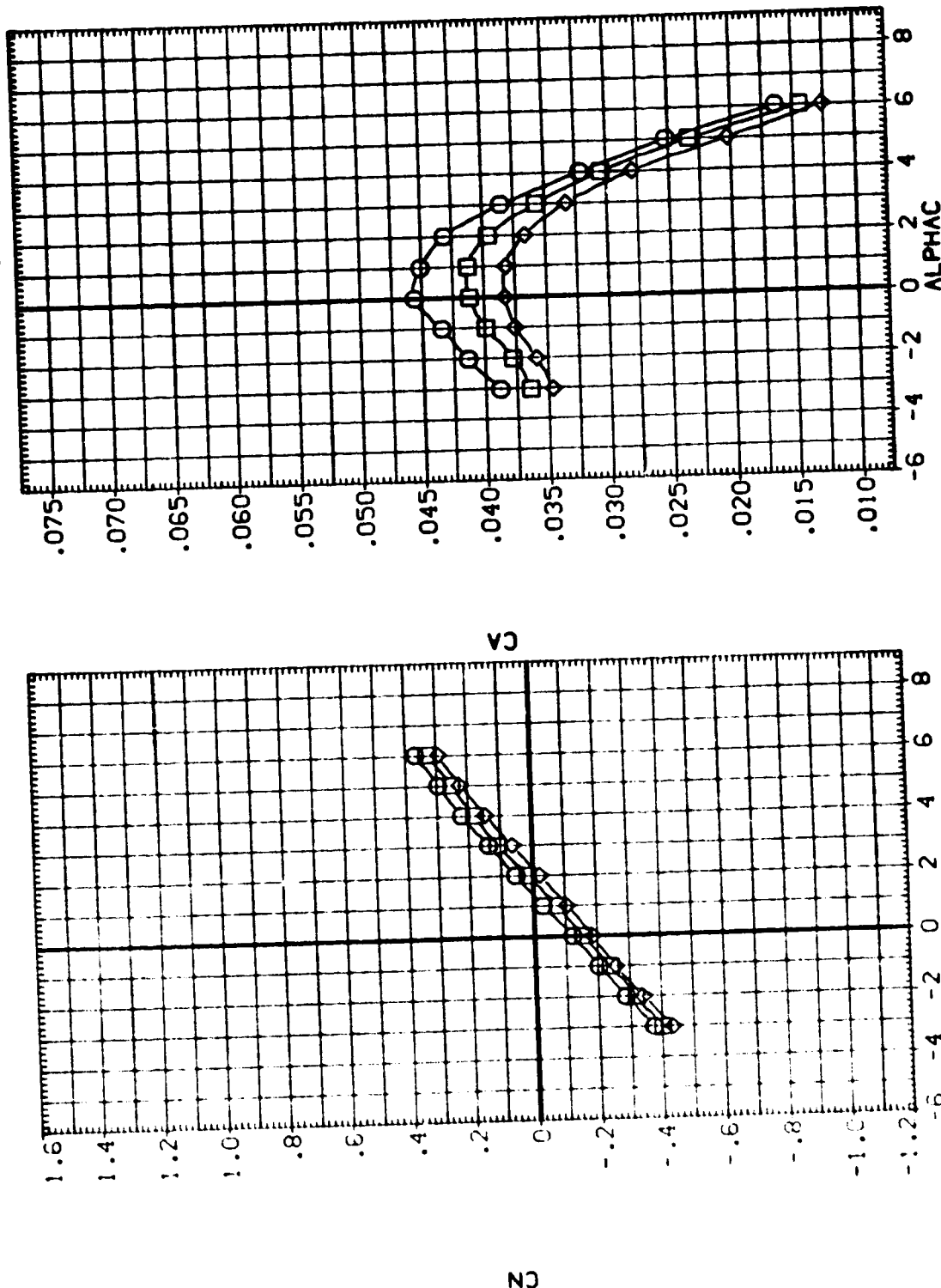


FIG. 9 CARRIER MATED AERO CHARACTERISTICS (INTERPOLATED I-088)

(A)MACH = .60

DATA SET SYMBOL
(YES) (NO)
(YES) (NO)
(YES) (NO)

CONFIGURATION DESCRIPTION
ARC14-080-1 CA23 747/1 01 AT1 (CAR,MATED)
ARC14-080-1 CA23 747/1 01 AT1 (CAR,MATED)
ARC14-080-1 CA23 747/1 01 AT1 (CAR,MATED)

STAB-C RUO-C ELV-D IAOB
-1.000 .000 10.000 4.000
-1.000 .000 10.000 6.000
-1.000 .000 10.000 8.000

REFERENCE INFORMATION
SREF 5500.0000 50.000 IN.
LREF 327.7800 IN.
BREF 2348.0400 IN. MC
XMRP 1339.5000 IN. VC
ZMRP 190.7500 IN. ZC
SCALE .0125

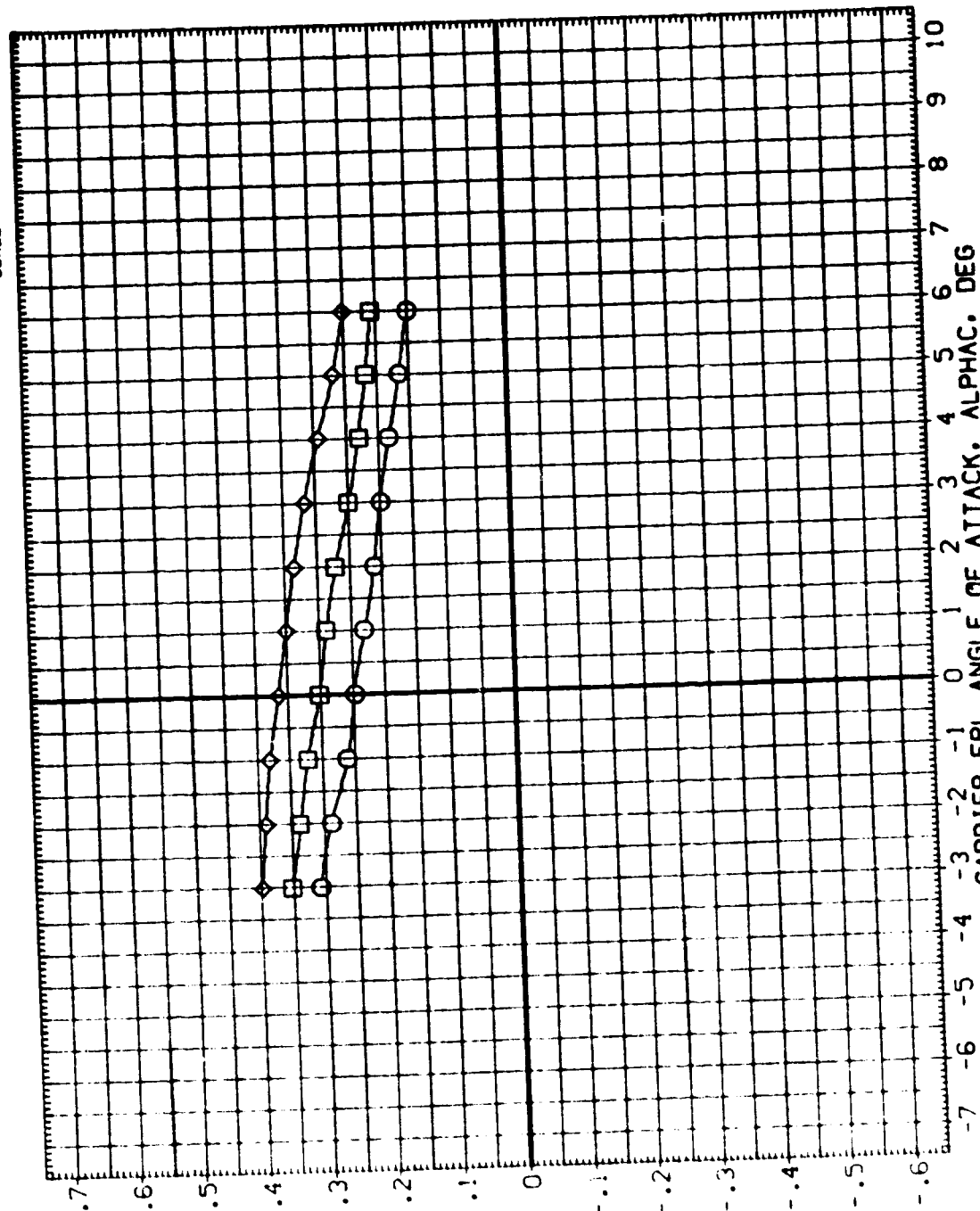


FIG. 9 CARRIER MATED AERO CHARACTERISTICS (INTERPOLATED I-ORB)

(A)MACH = .60



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	STAB-C	RUD-C	ELV-0	IAOR8	REFERENCE INFORMATION
(YESF50)	ARC14-080-1 CA23 747/1 01 AT1 (CAR.MATED)	-1.000	.000	10.000	4.000	SREF 9500.0000 99.FT.
(YESF30)	ARC14-080-1 CA23 747/1 01 AT1 (CAR.MATED)	-1.000	.000	10.000	6.000	LREF 327.7800 IN.
(YESF40)	ARC14-080-1 CA23 747/1 01 AT1 (CAR.MATED)	-1.000	.000	10.000	8.000	BREF 2348.0400 IN. XC
						XMRP 1339.5000 IN. YC
						YMRP .0000 IN. ZC
						ZMRP 190.7500 IN. ZC
						SCALE .0125

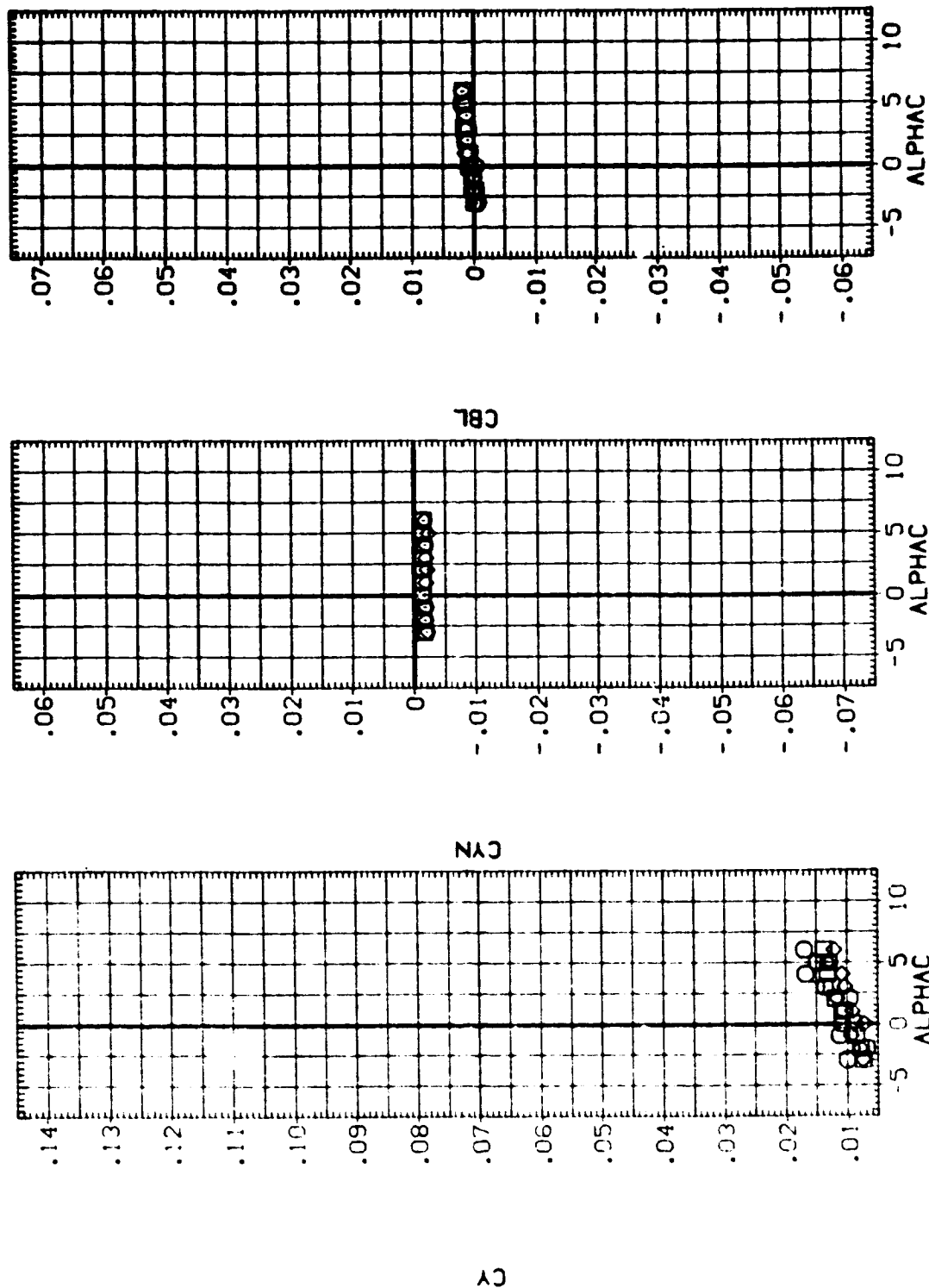


FIG. 9 CARRIER MATED AERO CHARACTERISTICS (INTERPOLATED I-OR8)

(A) MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(VE950) ARC14-080-1 CA23 747/1 01 AT1 (CAR.MATED)

(VE950) ARC14-080-1 CA23 747/1 01 AT1 (CAR.MATED)

(VE950) ARC14-080-1 CA23 747/1 01 AT1 (CAR.MATED)

STAB-C RUJ-C ELV-0 I-0808

-1.000 .000 10.000 4.000

-1.000 .000 10.000 6.000

-1.000 .000 10.000 8.000

REFERENCE INFORMATION

SREF 9500.0000 50.F1.

LREF 327.7600 IN.

BREF 2348.0400 IN.

YREF 1339.5000 IN.

ZREF 180.7500 IN.

SCALE .0125

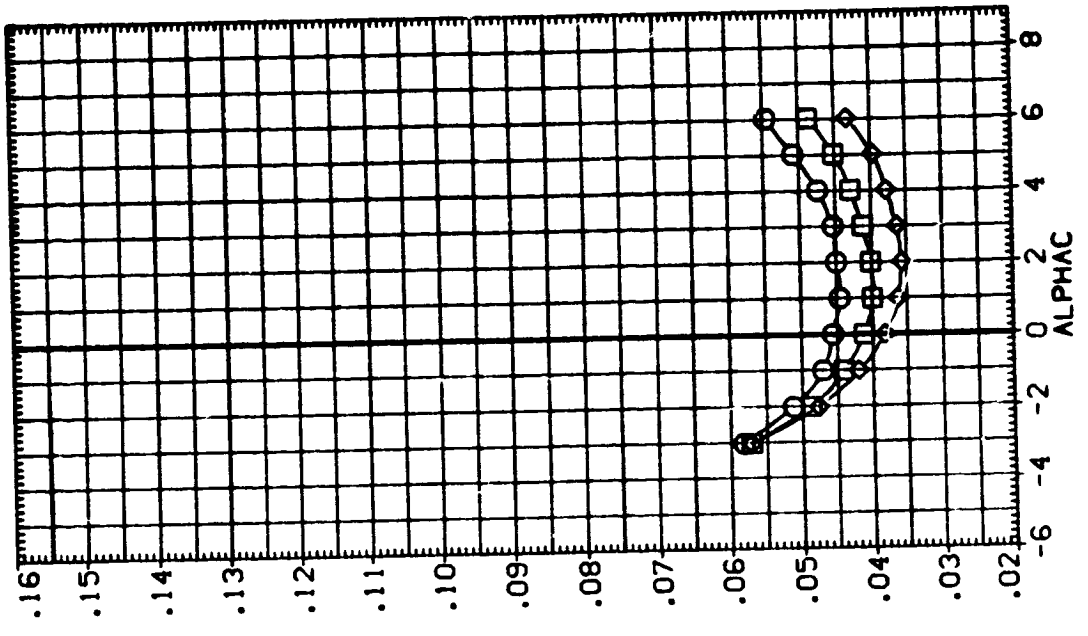
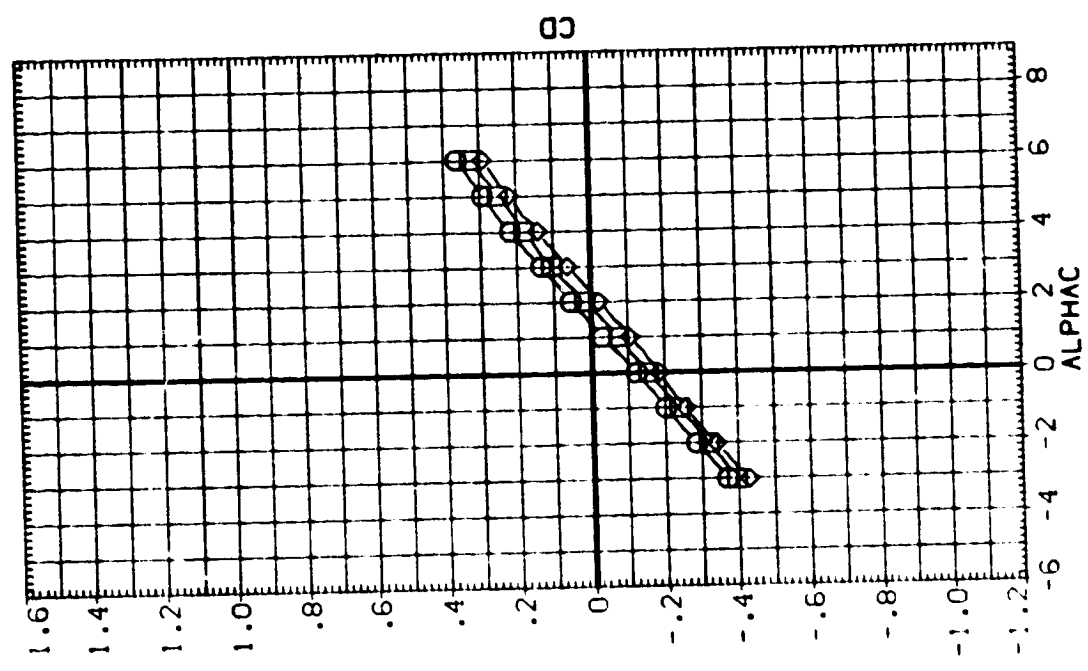


FIG. 9 CARRIER MATED AERO CHARACTERISTICS (INTERPOLATED I-ORB)

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	STAB-C	NUD-C	ELV-0	IA088	REFERENCE INFORMATION
(VE9F51)	ARC14-080-1 CA23 747/1 01 AT1 (CAR.MATED)	5.000	.000	10.000	4.000	SREF 5500.0000 50.FT.
(VE9F31)	ARC14-080-1 CA23 747/1 01 AT1 (CAR.MATED)	5.000	.000	10.000	6.000	LREF 327.7000 IN.
(VE9F41)	ARC14-080-1 CA23 747/1 01 AT1 (CAR.MATED)	5.000	.000	10.000	8.000	BREF 2348.0400 IN.
						XMRP 1339.9000 IN. VC
						YMRP .0500 IN. VC
						ZMRP 190.7500 IN. ZC
						SCALE .0125

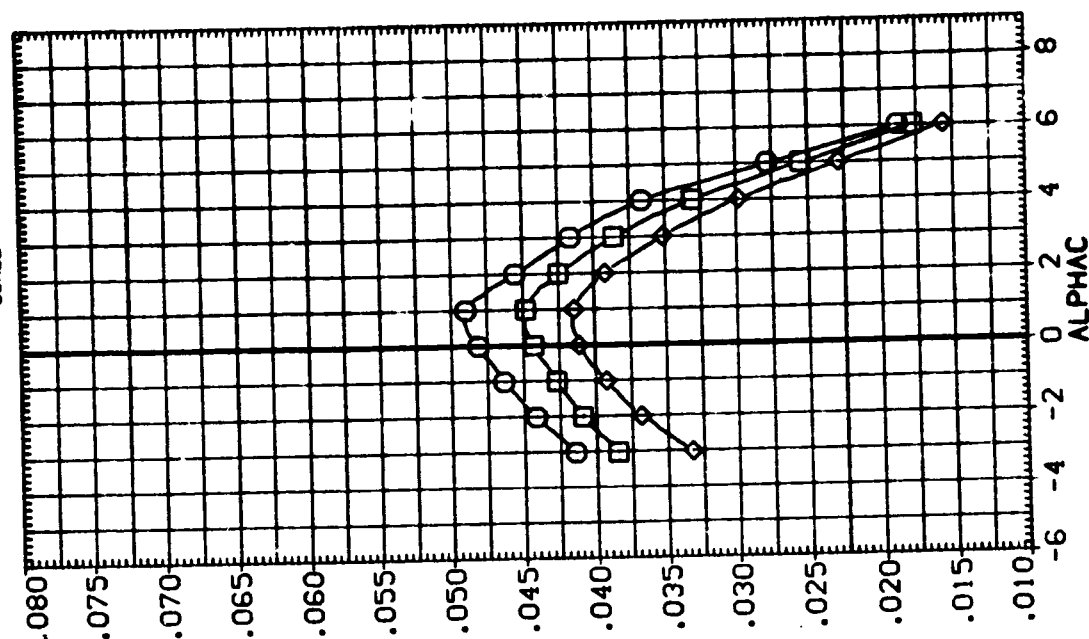
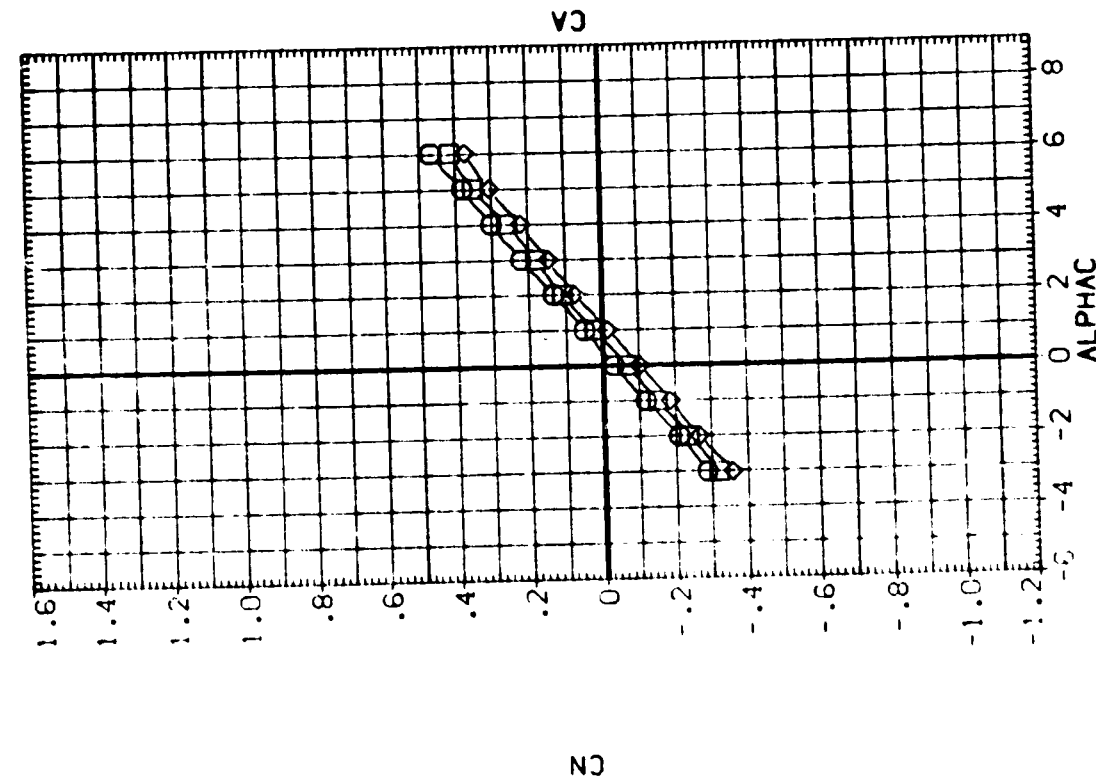


FIG. 9 CARRIER MATED AERO CHARACTERISTICS (INTERPOLATED I-088)

(A)MAC = .60

DATA SET SYMBOL

(YESF51)
(YESF51)
(YESF41)

CONFIGURATION DESCRIPTION

ARC14-080-1 CA23 747/1 01 AT1 (CAR.MATED)
ARC14-080-1 CA23 747/1 01 AT1 (CAR.MATED)
ARC14-080-1 CA23 747/1 01 AT1 (CAR.MATED)

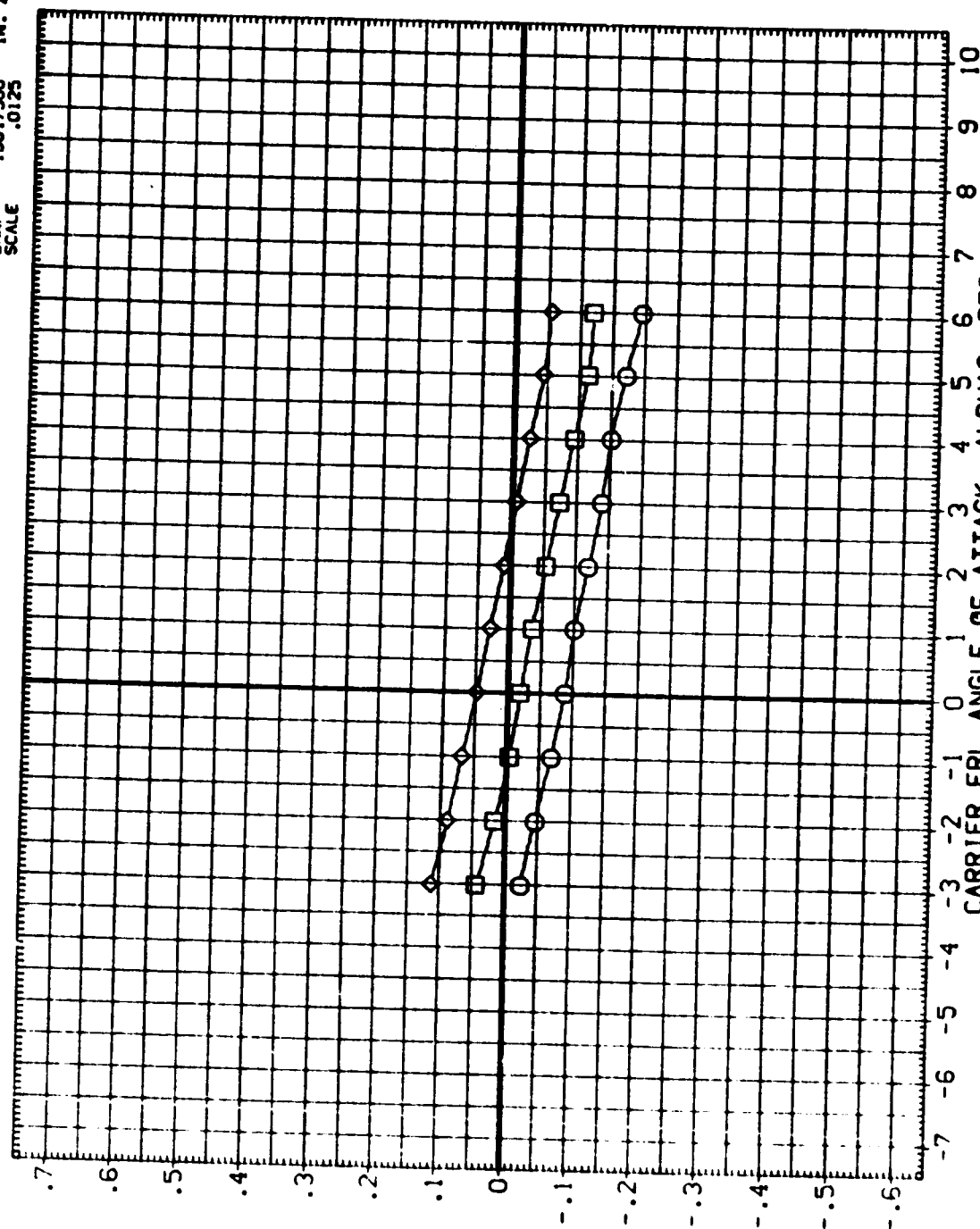
STAB-C
5.000
5.000
5.000

RUD-C
.000
.000
.000

ELV-0
10.000
10.000
10.000

IAORB
4.000
6.000
8.000

REFERENCE INFORMATION
SREF 5500.0000 50. FT.
LREF 327.7800 IN.
BREF 2348.0400 IN.
XMRP 1339.9000 IN.
YMRP .0000 IN.
ZMRP 190.7500 IN.
SCALE .0125



PITCHING MOMENT COEFFICIENT, CLM

FIG. 9 CARRIER MATED AERO CHARACTERISTICS (INTERPOLATED I-ORB)

CLM/MACH = .60

DATA SET	SIMUL	CONFIGURATION DESCRIPTION	STAB-C	RUD-C	ELV-0	IAOR8	REFERENCE INFORMATION
(YES)	()	ARC14-080-1 CA23 747/1 01 AT1 (CAR,MATED)	5.000	.000	10.000	4.000	SREF 5500.0000 90.FT.
(YES)	()	ARC14-080-1 CA23 747/1 01 AT1 (CAR,MATED)	5.000	.000	10.000	6.000	LREF 327.7800 IN.
(YES)	()	ARC14-080-1 CA23 747/1 01 AT1 (CAR,MATED)	5.000	.000	10.000	8.000	BREF 2348.0400 IN.
							XMRP 1339.5000 IN. MC
							YMRP .0000 IN. VC
							ZMRP 190.7500 IN. XC
							SCALE .0125

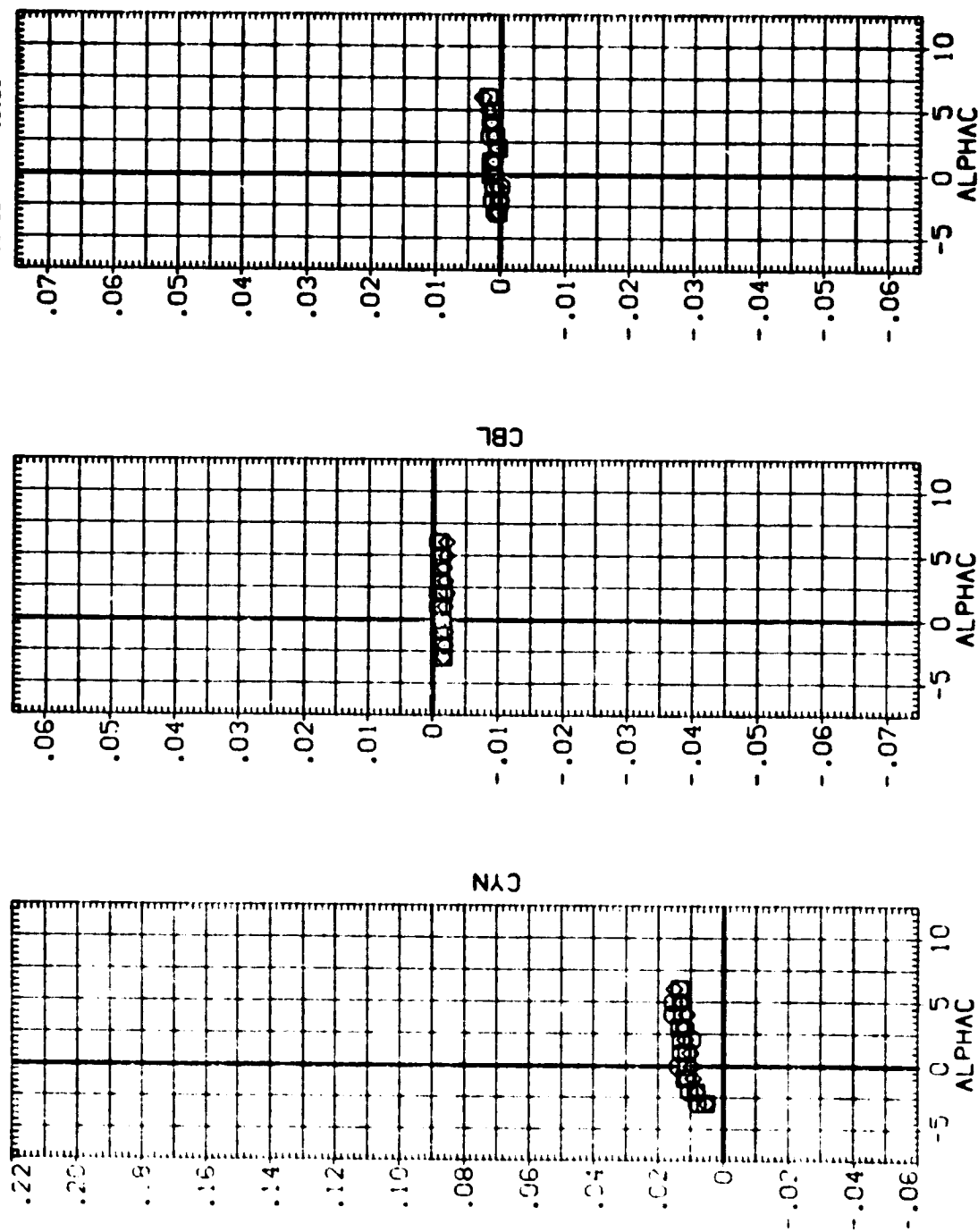


FIG. 9 CARRIER MATED AERO CHARACTERISTICS (INTERPOLATED I-088)

(A)MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION

ARC 14-080-1 CA23 747/1 01 AT1 (CAR.MATED)
 ARC 14-080-1 CA23 747/1 01 AT1 (CAR.MATED)
 ARC 14-080-1 CA23 747/1 01 AT1 (CAR.MATED)

STAB-C RUO-C ELV-0 IAO08
 5.000 .000 10.000 4.000
 5.000 .000 10.000 6.000
 5.000 .000 10.000 8.000

REFERENCE INFORMATION
 SREF 5500.0000 SO.FT.
 LREF 327.7800 IN.
 BREF 2348.0400 IN.
 XMRP 1339.5000 IN. XC
 YMRP 190.7500 IN. YC
 ZMRP .0125 IN. ZC

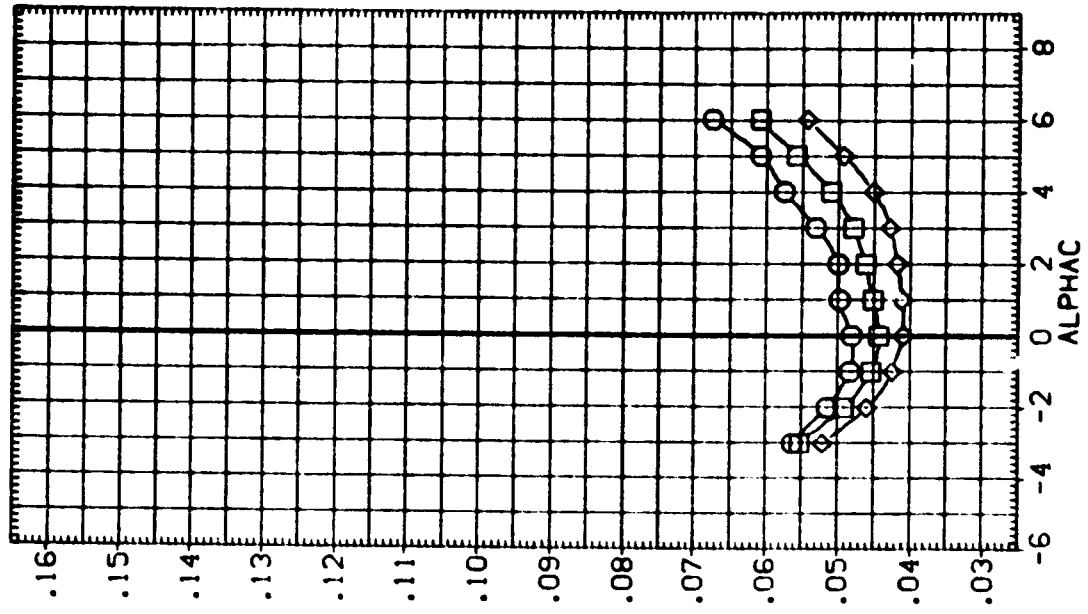
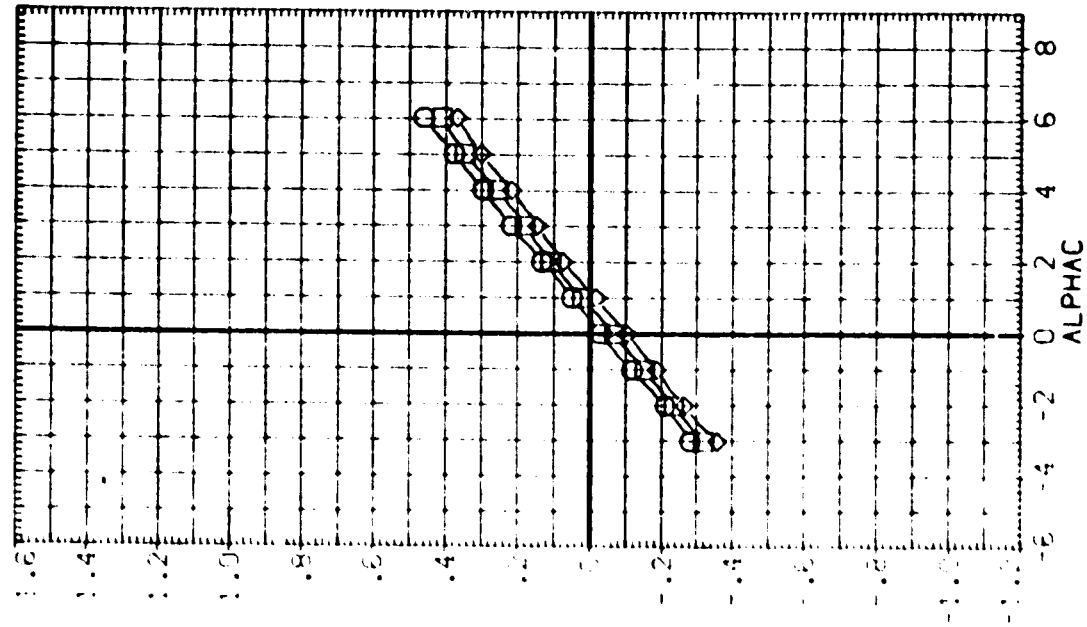


FIG. 9 CARRIER MATED AERO CHARACTERISTICS (INTERPOLATED I-0RB)

CL MAX = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	STAB-C	RUD-C	ELV-0	IAOR8	REFERENCE INFORMATION
(ZERN 46)	ARC14-080-1 CA23 747/1 01 AT1 (CAR MATED)	5.000	.000	.000	4.000	SREF 5500.0000 50.0 FT.
(VEGN 32)	ARC14-080-1 CA23 747/1 01 AT1 (CAR MATED)	5.000	.000	.000	6.000	LREF 327.7800 IN.
(VEGN 43)	ARC14-080-1 CA23 747/1 01 AT1 (CAR MATED)	5.000	.000	.000	8.000	BREF 2348.0400 IN.
						XMRP 1339.9000 IN. XC
						YMRP 190.0500 IN. YC
						ZMRP 190.7500 IN. ZC
						SCALE .0125

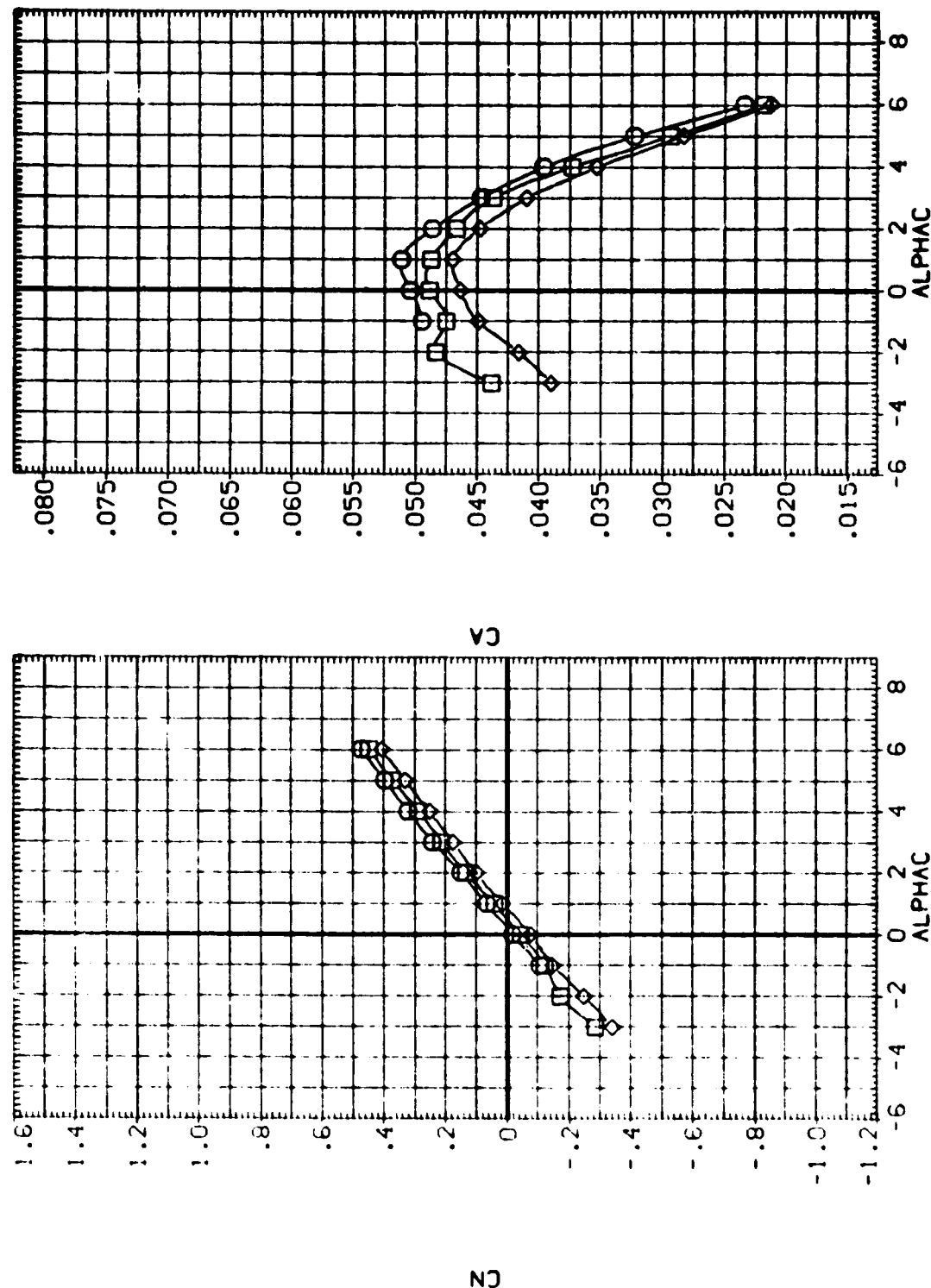


FIG. 9 CARRIER MATED AERO CHARACTERISTICS (INTERPOLATED I-088)

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	STAB-C	RUD-C	ELV-0	IAOR8	REFERENCE INFORMATION
(2E9463)	ARC14-080-1 CA23 747/1 01 AT1 (CAR.MATED)	5.000	.000	.000	4.000	SREF 5500.0000 SQ.FT.
(2E9463)	ARC14-080-1 CA23 747/1 01 AT1 (CAR.MATED)	5.000	.000	.000	6.000	LREF 327.7800 IN.
(2E9463)	ARC14-080-1 CA23 747/1 01 AT1 (CAR.MATED)	5.000	.000	.000	8.000	BREF 2348.0400 IN.
(2E9463)	ARC14-080-1 CA23 747/1 01 AT1 (CAR.MATED)	5.000	.000	.000		XMRP 1339.9000 IN.
(2E9463)	ARC14-080-1 CA23 747/1 01 AT1 (CAR.MATED)	5.000	.000	.000		VMRP .0000 IN.
(2E9463)	ARC14-080-1 CA23 747/1 01 AT1 (CAR.MATED)	5.000	.000	.000		ZMRP 190.7500 IN.
(2E9463)	ARC14-080-1 CA23 747/1 01 AT1 (CAR.MATED)	5.000	.000	.000		SCALE .0125

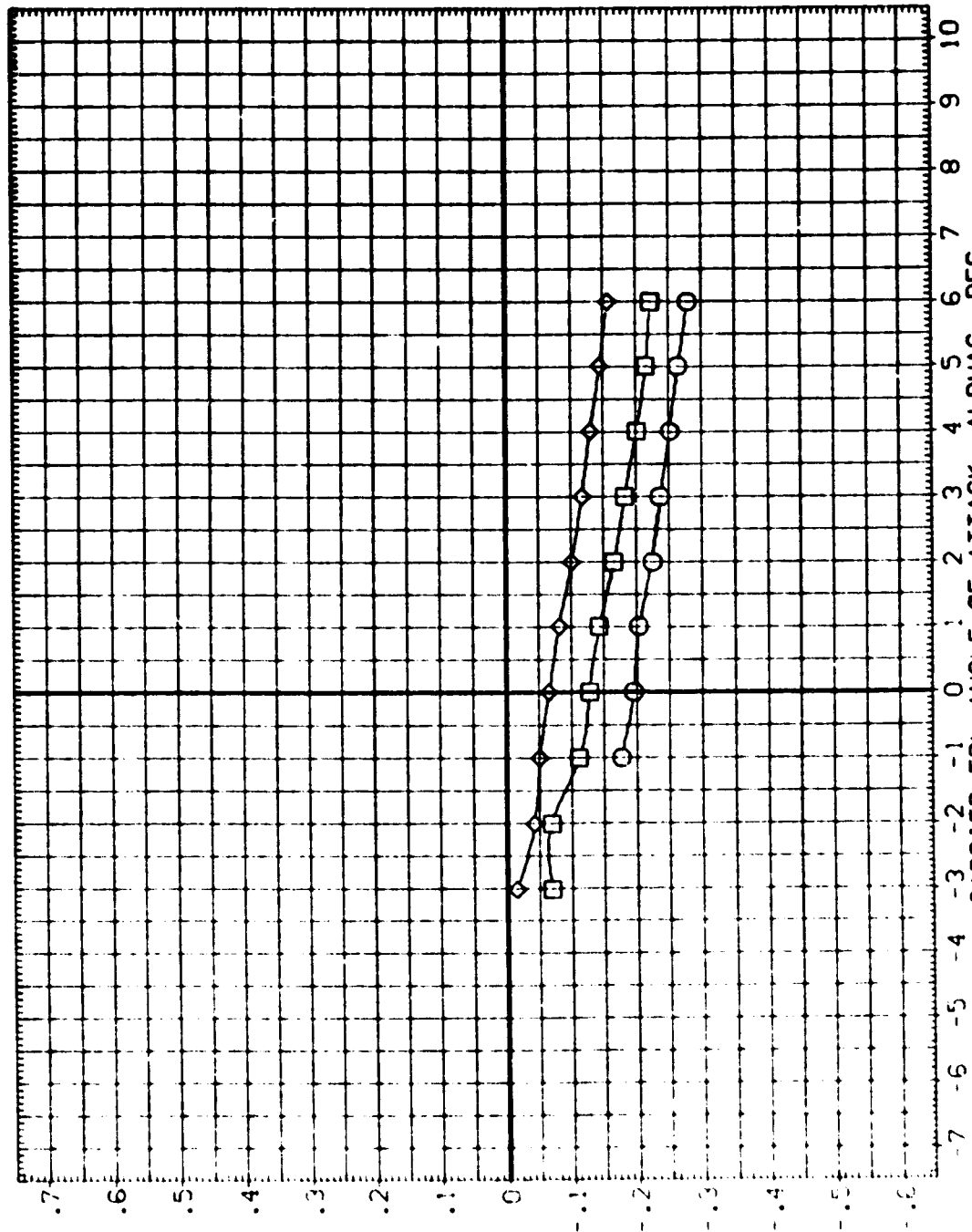


FIG. 9 CARRIER MATED AERO CHARACTERISTICS (INTERPOLATED I-ORB)

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	STAB-C	RUD-C	ELV-0	IACRB	REFERENCE INFORMATION
(ZESF46)	ARC14-CB01 CA23 7471 01 AT1 (CAR.MATED)	5.000	.000	.000	4.000	SREF 5500.0000 SQ.FT.
(YESF12)	ARC14-CB01 CA23 7471 01 AT1 (CAR.MATED)	5.000	.000	.000	6.000	LREF 327.7800 IN.
(YESF43)	ARC14-CB01 CA23 7471 01 AT1 (CAR.MATED)	5.000	.000	.000	8.000	SREF 2348.0400 IN.
						YMRP 1339.9000 IN. VC
						ZMRP 190.7500 IN. ZC
						SCALE .0125

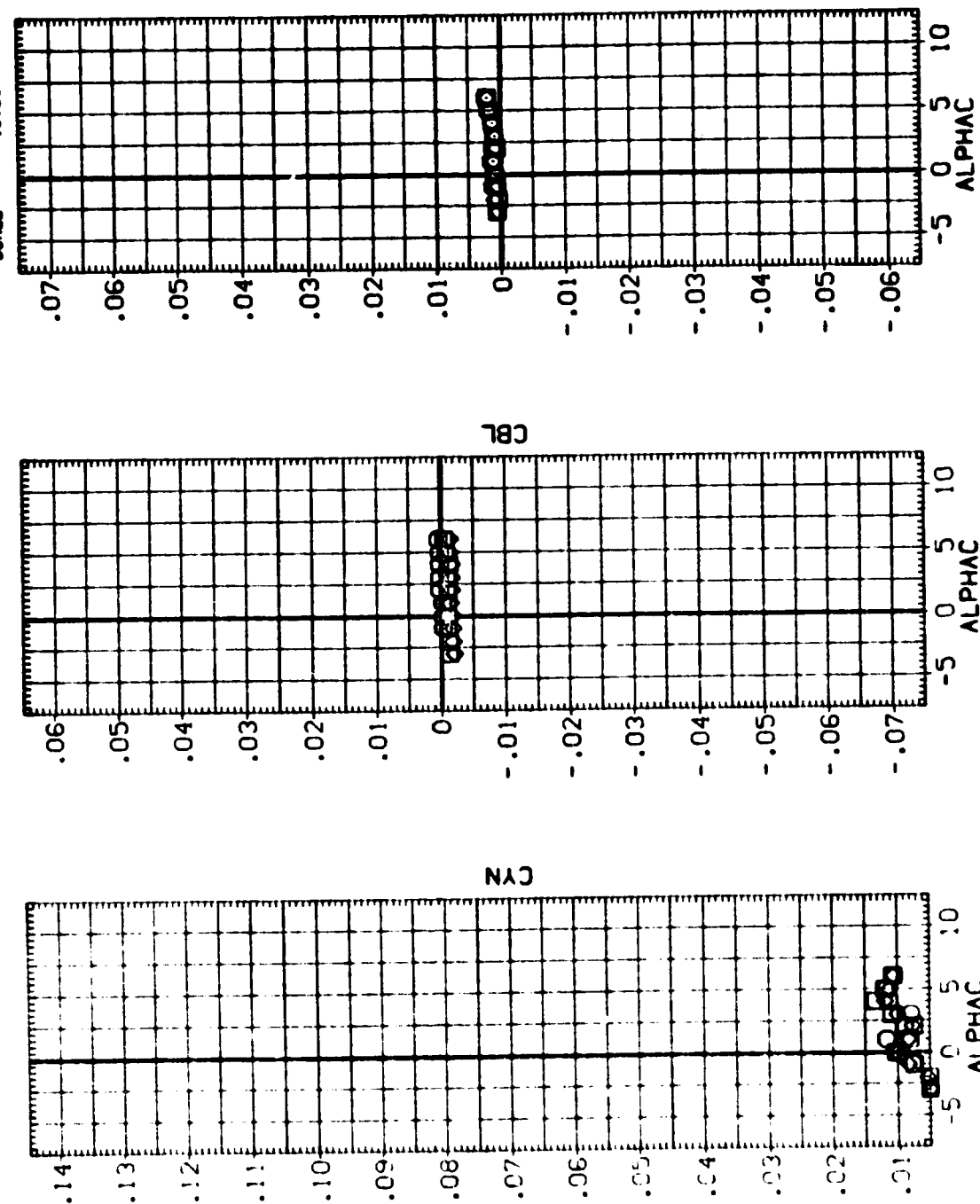


FIG. 9 CARRIER MATED AERO CHARACTERISTICS (INTERPOLATED I-ORB)

(A) MATED = .60

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	STAB-C	RUD-C	ELV-B	IAR-B	REFERENCE INFORMATION
259546	ARC14-080-1 CA23 747/1 01 AT1 (CAR.MATED)	5.000	.000	.000	4.000	SREF 5900.0000 SQ.FT.
259547	ARC14-080-1 CA23 747/1 01 AT1 (CAR.MATED)	5.000	.000	.000	6.000	LREF 327.7800 IN.
259548	ARC14-080-1 CA23 747/1 01 AT1 (CAR.MATED)	5.000	.000	.000	8.000	BREF 2348.0400 IN.
						WARP 1339.8000 IN.
						ZWAP 190.7500 IN.
						SCALE .0125

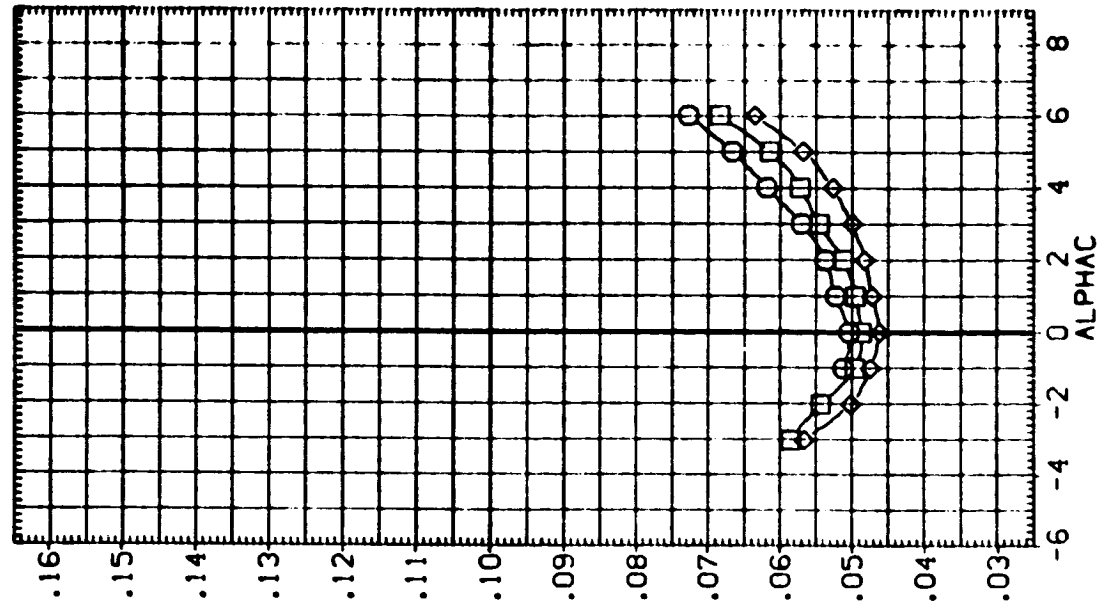
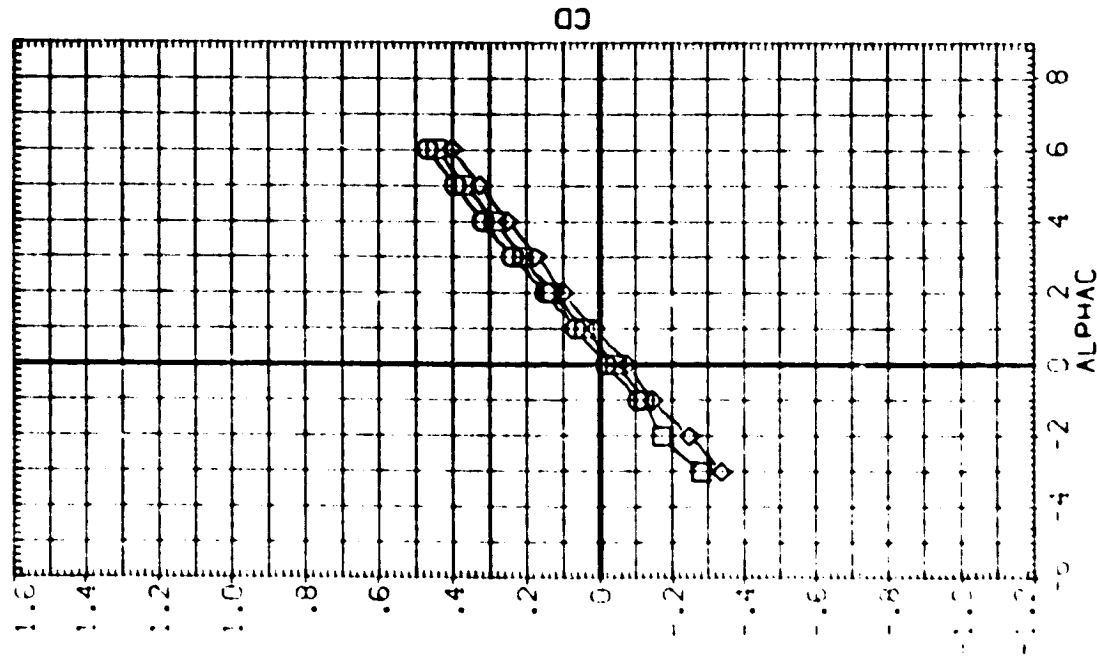


FIG. 9 CARRIER MATED AERO CHARACTERISTICS (INTERPOLATED I-ORB)

DATA SET SYMBOL CONFIGURATION DESCRIPTION

DATA SET SYMBOL	CONFIGURATION	DESCRIPTION
ARC14-00	CA23 747/1 01 AT1	(CAR.MATED)
ARC14-01	CA23 747/1 01 AT1	(CAR.MATED)
ARC14-02	CA23 747/1 01 AT1	(CAR.MATED)
ARC14-03	CA23 747/1 01 AT1	(CAR.MATED)

REFERENCE INFORMATION

REFERENCE INFORMATION	SO.FT.
SREF	5500.0000
LREF	327.7800
BREF	2348.0400
XMRP	1339.5000
YMRP	190.7500
ZMRP	190.7500
SCALE	.0125

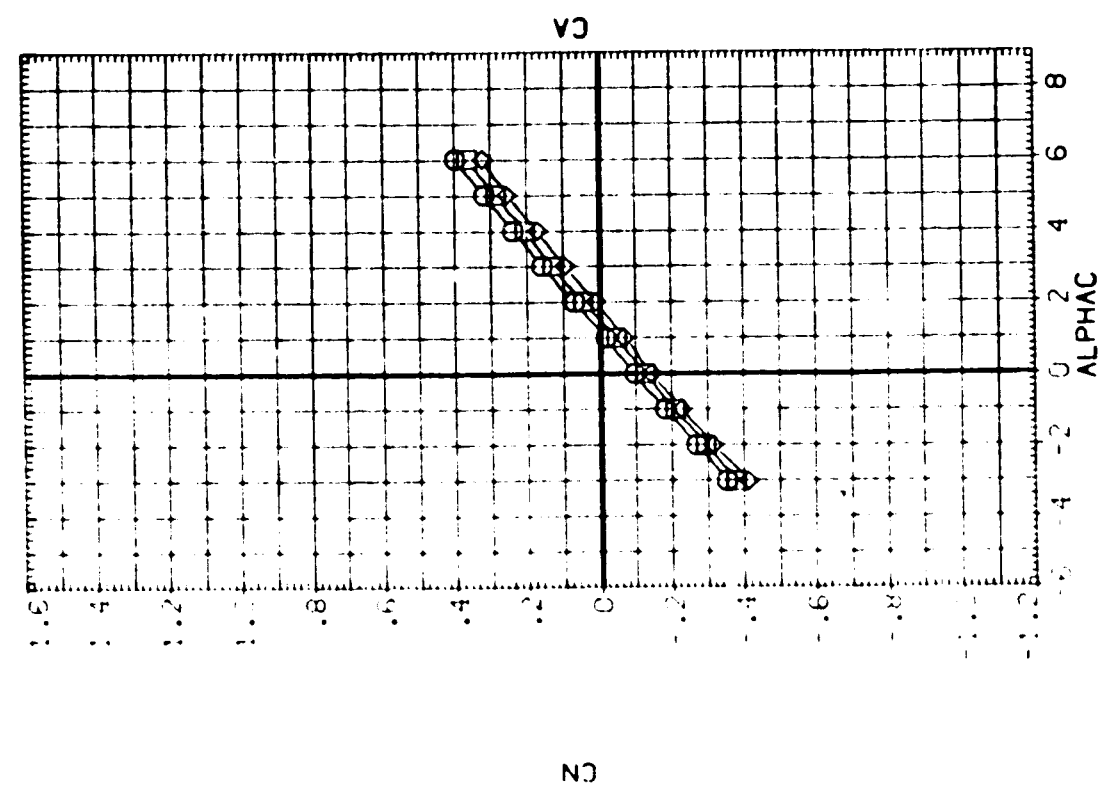
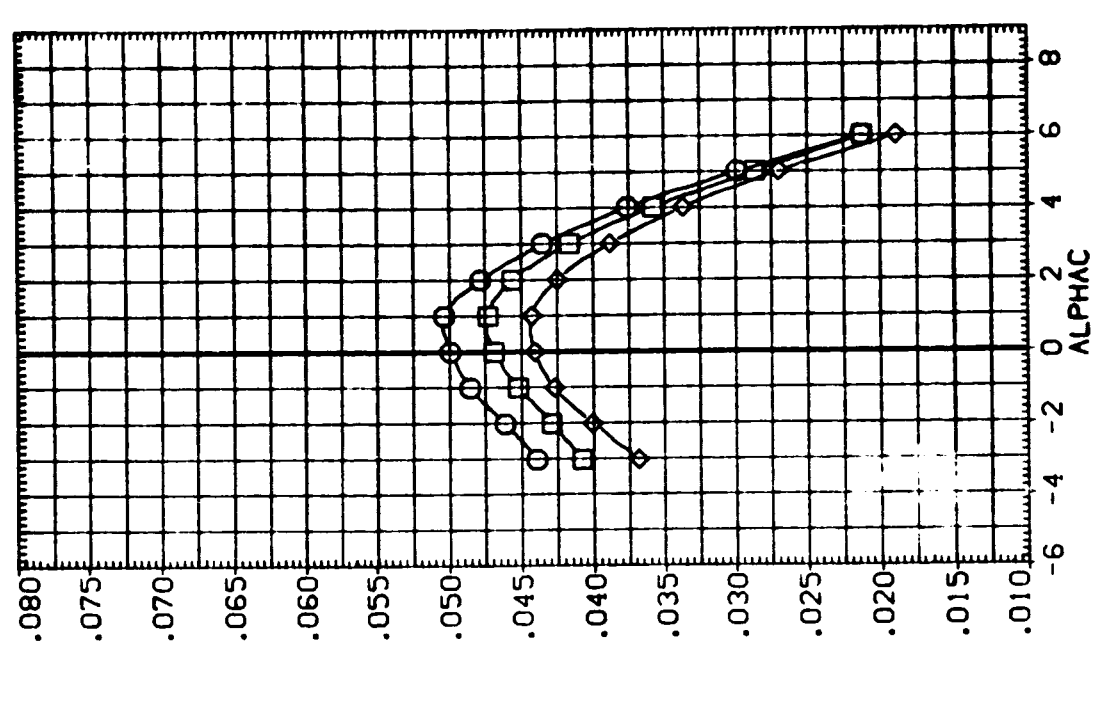


FIG. 9 CARRIER MATED AERO CHARACTERISTICS (INTERPOLATED I-ORB)

(A) MACH = .60

DATA SET SYMBOL: 101
 REFERENCE INFORMATION
 SREF 5500.0000 50 FT.
 LREF 327.7800 IN.
 BREF 2348.0400 IN.
 XMRP 1339.9000 IN.
 YMRP 190.7500 IN.
 ZMRP 190.7500 IN.
 SCALE .0125

STAB-C RUD-C ELV-B IAOB8
 -1.000 .000 .000 4.000
 -1.000 .000 .000 6.000
 -1.000 .000 .000 8.000

CONFIGURATION DESCRIPTION
 ARC14-080 1 CA23 747/1 01 AT1 (CAR. MATED)
 ARC14-080 1 CA23 747/1 01 AT1 (CAR. MATED)
 ARC14-080 1 CA23 747/1 01 AT1 (CAR. MATED)

VELOCITY
 45
 44
 44

PITCHING MOMENT COEFFICIENT, CLM

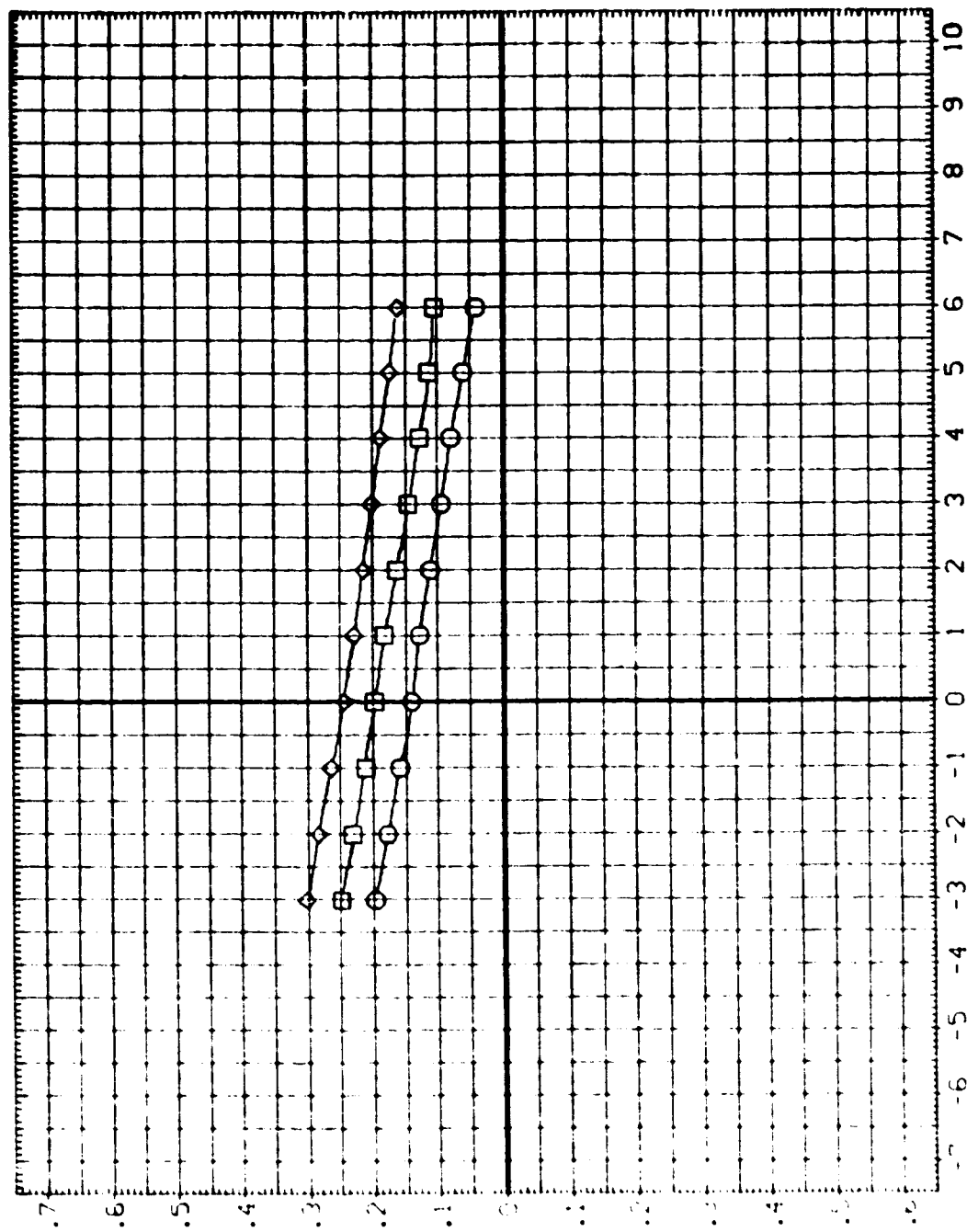


FIG. 9 CARRIER MATED AERO CHARACTERISTICS (INTERPOLATED I-ORB)

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	STAB-C	RUO-C	ELV-0	IAOR0	REFERENCE INFORMATION
(VE944)	ARC14-080-1 CA23 747/1 01 AT1 (CAR,MATED)	-1.000	.000	.000	4.000	SREF 5500.0000 50.FT.
(VE944)	ARC14-080-1 CA23 747/1 01 AT1 (CAR,MATED)	-1.000	.000	.000	8.000	LINEF 327.7000 IN.
(VE944)	ARC14-080-1 CA23 747/1 01 AT1 (CAR,MATED)	-1.000	.000	.000		SREF 2348.0400 IN.
						XMRP 1339.9000 IN.
						YMRP .0000 IN.
						ZMRP 190.7500 IN.
						SCALE .0125

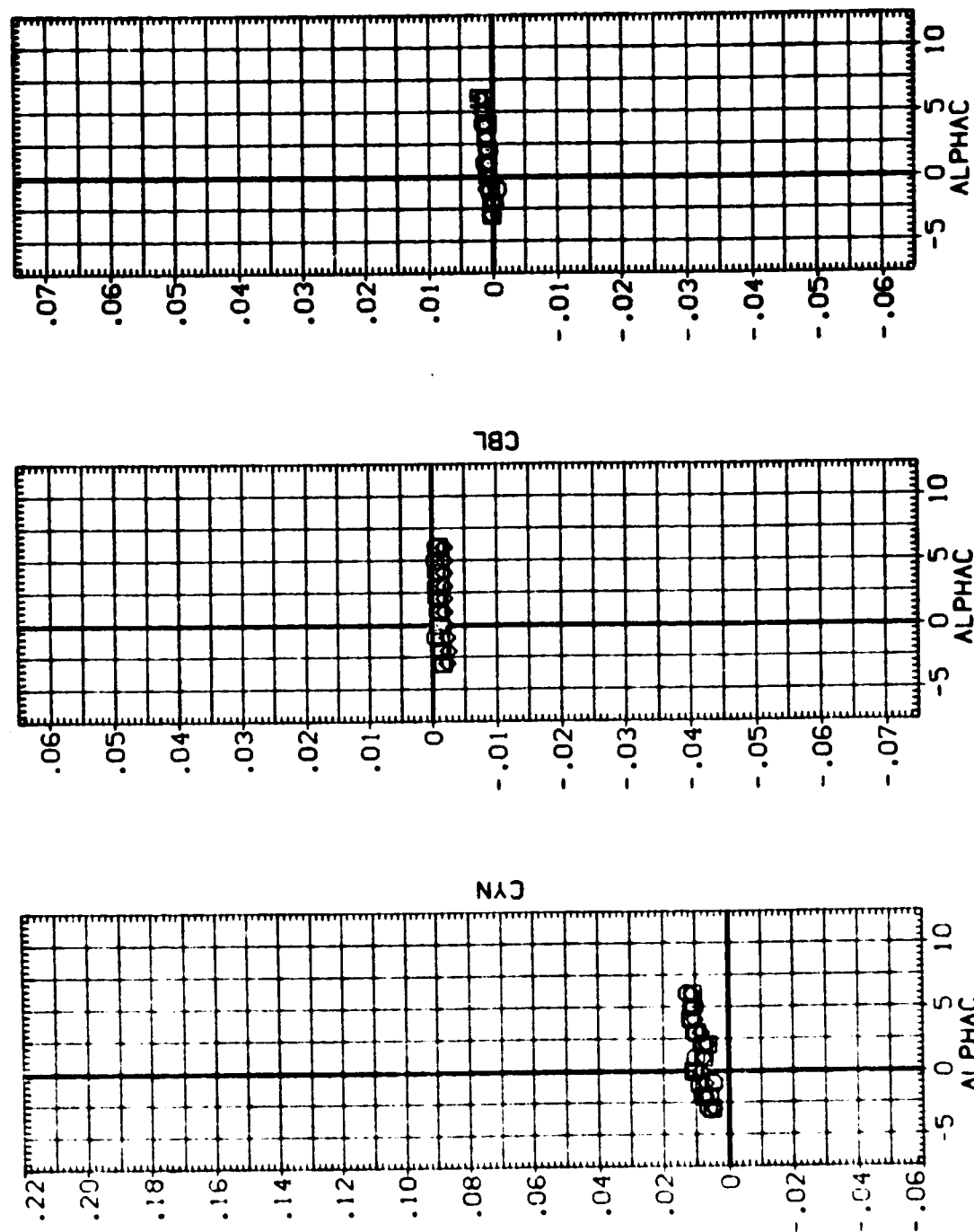


FIG. 9 CARRIER MATED AERO CHARACTERISTICS (INTERPOLATED I-088)

(A)MACH = .60

DATA SET SYMBOL: (YES 45) (YES 14) (YES 44)

CONFIGURATION DESCRIPTION: ARC 14-080-1 CA23 747/1 01 AT1 (CAR.MATED) ARC 14-086-1 CA23 747/1 01 AT1 (CAR.MATED) ARC 14-080-1 CA23 747/1 01 AT1 (CAR.MATED)

STAB-C RUO-C ELV-O IAGNB

REFERENCE INFORMATION: SREF 5500.0000 SO.FT. LREF 327.2800 IN. BREF 2348.0400 IN. XMRP 1339.5000 IN. YMRP .0000 IN. ZMRP 190.7500 IN. SCALE .0125

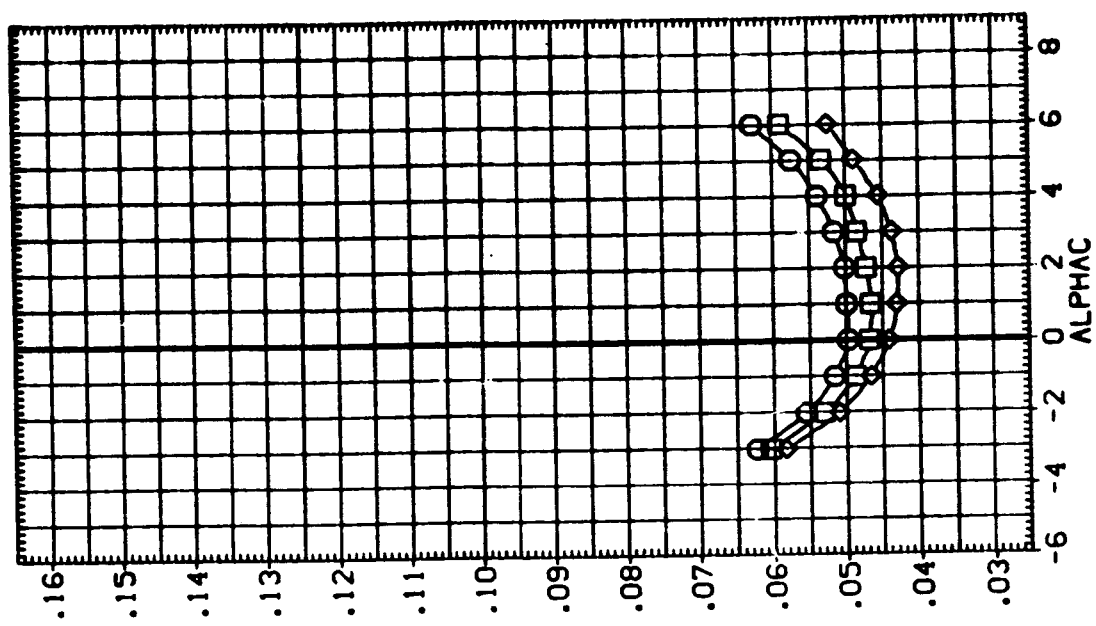
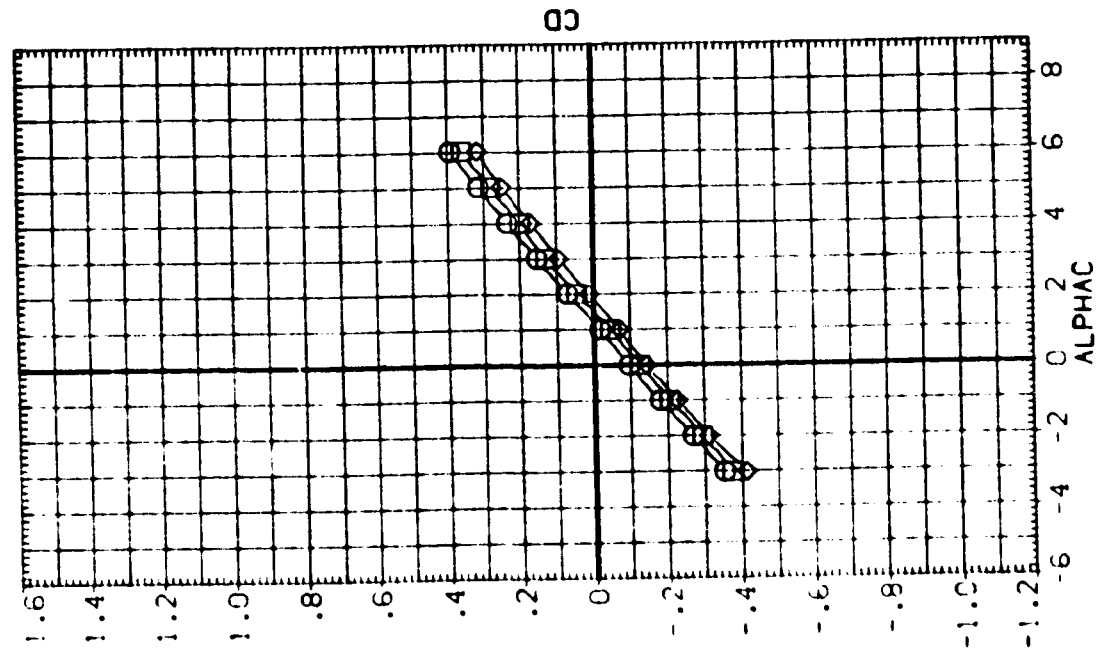
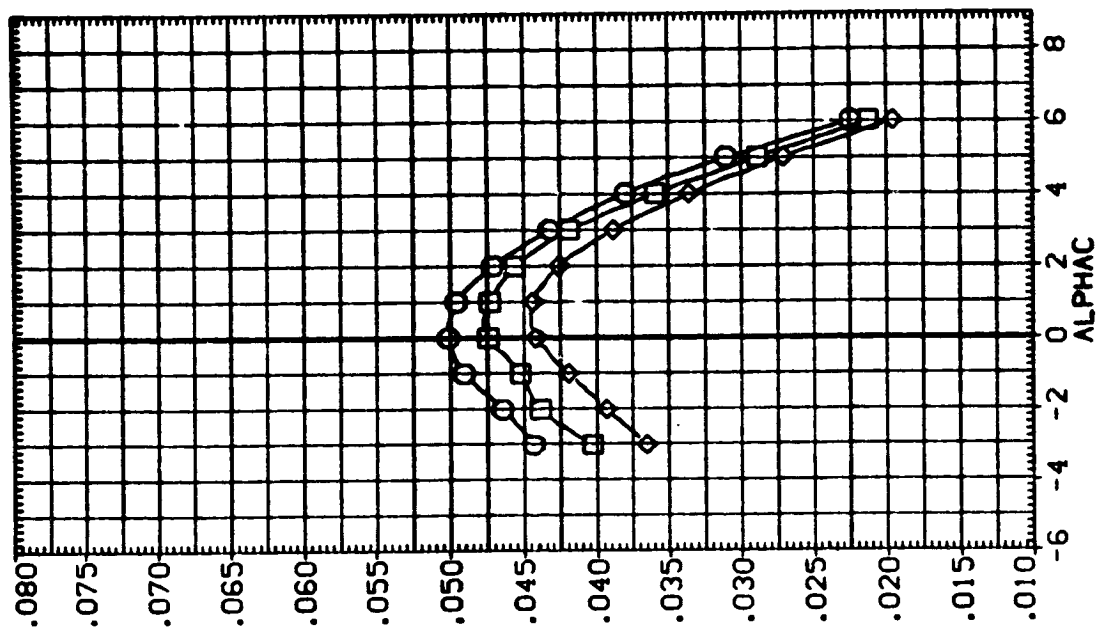
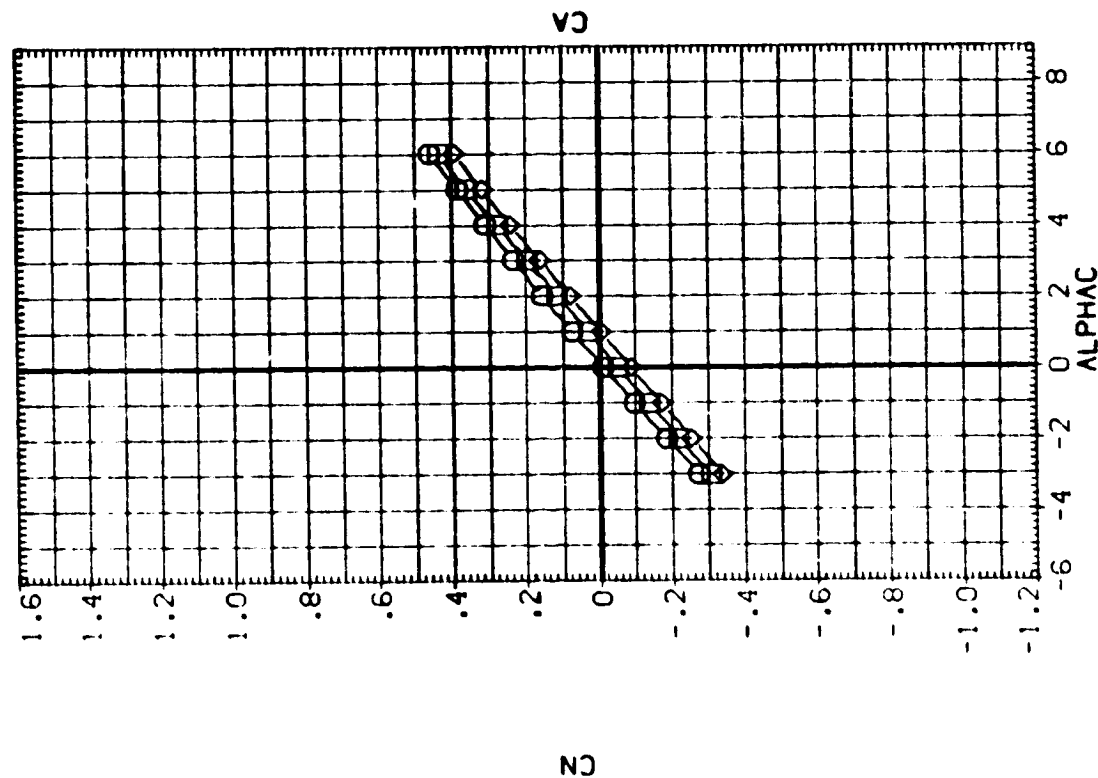


FIG. 9 CARRIER MATED AERO CHARACTERISTICS (INTERPOLATED I-ORB)

(A)MACH = .60

1. The first step in the process is to identify the problem or issue that needs to be addressed. This involves gathering information and understanding the context of the problem.

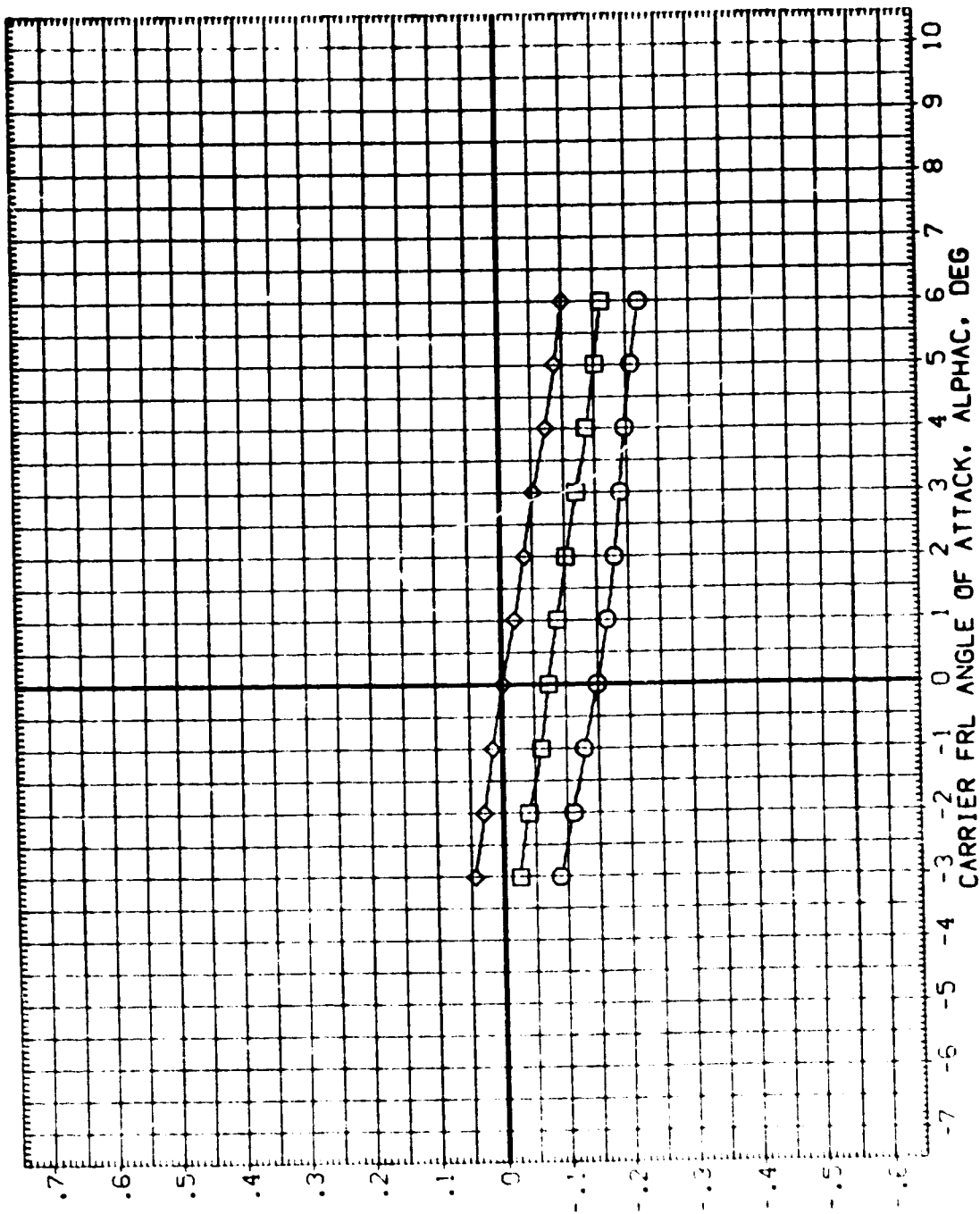


DATA SET SYMBOL: (1E942) (1E943) (1E944) (1E945) (1E946)

CONFIGURATION DESCRIPTION: ARC14-080-1 CA23 747/1 01 AT1 (CAR.MATED) ARC14-080-1 CA23 747/1 01 AT1 (CAR.MATED) ARC14-080-1 CA23 747/1 01 AT1 (CAR.MATED)

STAB-C ELV-0 AIL-0 IAOB8

REFERENCE INFORMATION: SREF 5500.0000 SQ.FT. LREF 327.7800 IN. BREF 2348.0400 IN. XMRP 1339.9000 IN. YMRP 190.7500 IN. ZMRP 190.7500 IN. SCALE .0125



PITCHING MOMENT COEFFICIENT, CLM

FIG. 9 CARRIER MATED AERO CHARACTERISTICS (INTERPOLATED I-088)

CALMACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	STAB-C	ELV-0	AIL-0	IAORB	REFERENCE INFORMATION
(YESF52)	ARC14-080-1 CA23 747/1 01 AT1 (CAR.MATED)	5.000	5.000	-10.000	4.000	SREF 5500.0000 SO.FT.
(YESF35)	ARC14-080-1 CA23 747/1 01 AT1 (CAR.MATED)	5.000	5.000	-10.000	6.000	LREF 327.7800 IN.
(YESF42)	ARC14-080-1 CA23 747/1 01 AT1 (CAR.MATED)	5.000	5.000	-10.000	8.000	BREF 2348.0400 IN.
						YMRP 1339.9000 IN. MC
						ZMRP .0000 IN. VC
						SCALE 190.7500 IN. ZC
						.0125

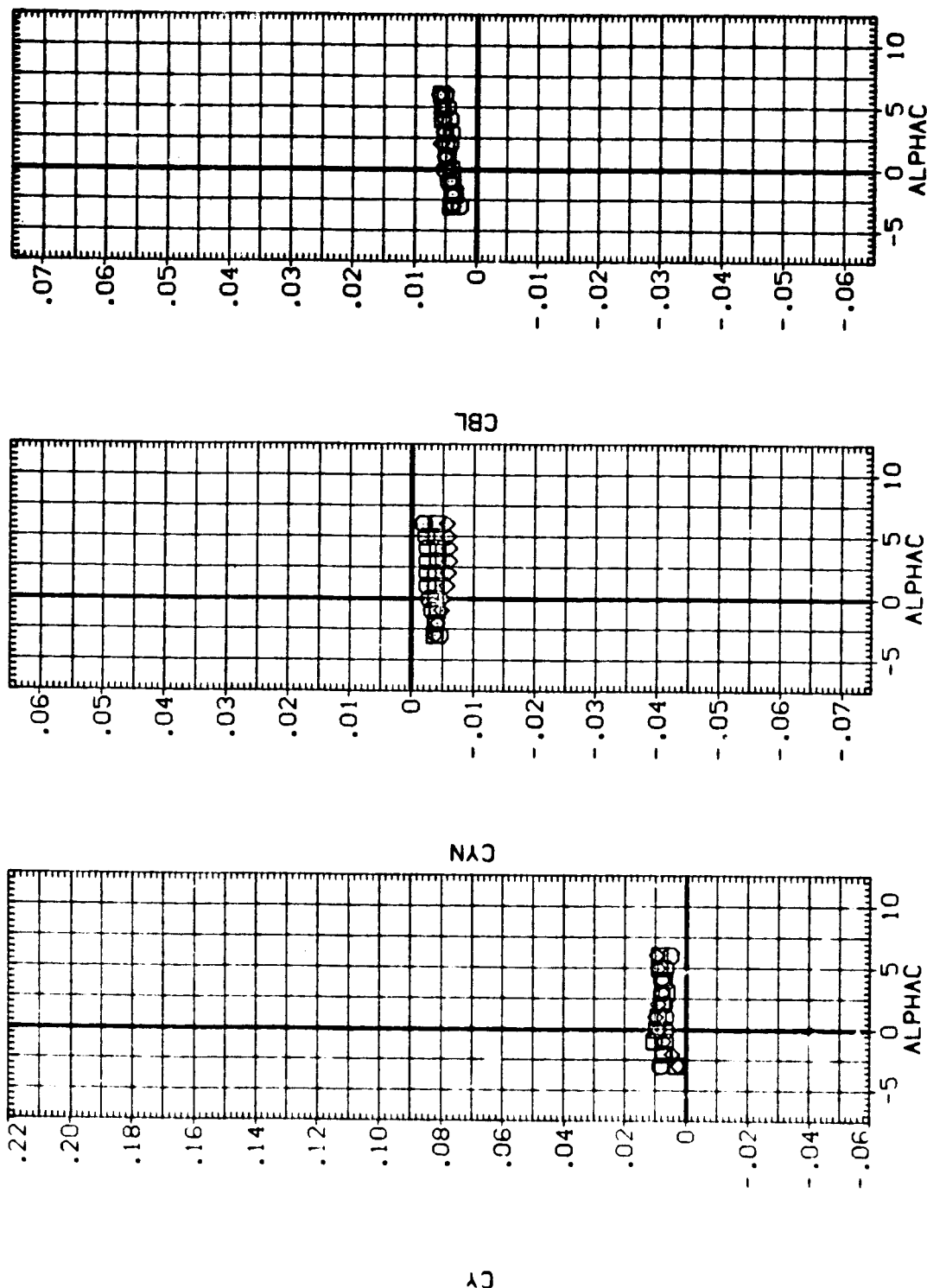


FIG. 9 CARRIER MATED AERO CHARACTERISTICS (INTERPOLATED I-ORB)

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	STAB-C	ELV-0	AIL-0	IAORB	REFERENCE INFORMATION
(YESF53)	ARC14-080-1 CA23 747/1 01 AT1 (CAR.MATED)	5.000	5.000	-10.000	4.000	SREF 5900.0000 50.FT.
(YESF55)	ARC14-080-1 CA23 747/1 01 AT1 (CAR.MATED)	5.000	5.000	-10.000	6.000	LREF 127.7800 IN.
(YESF42)	ARC14-080-1 CA23 747/1 01 AT1 (CAR.MATED)	5.000	5.000	-10.000	8.000	BREF 2348.0400 IN.
						YMRP 1339.8000 IN. XC
						ZMRP 190.7500 IN. ZC
						SCALE .0125

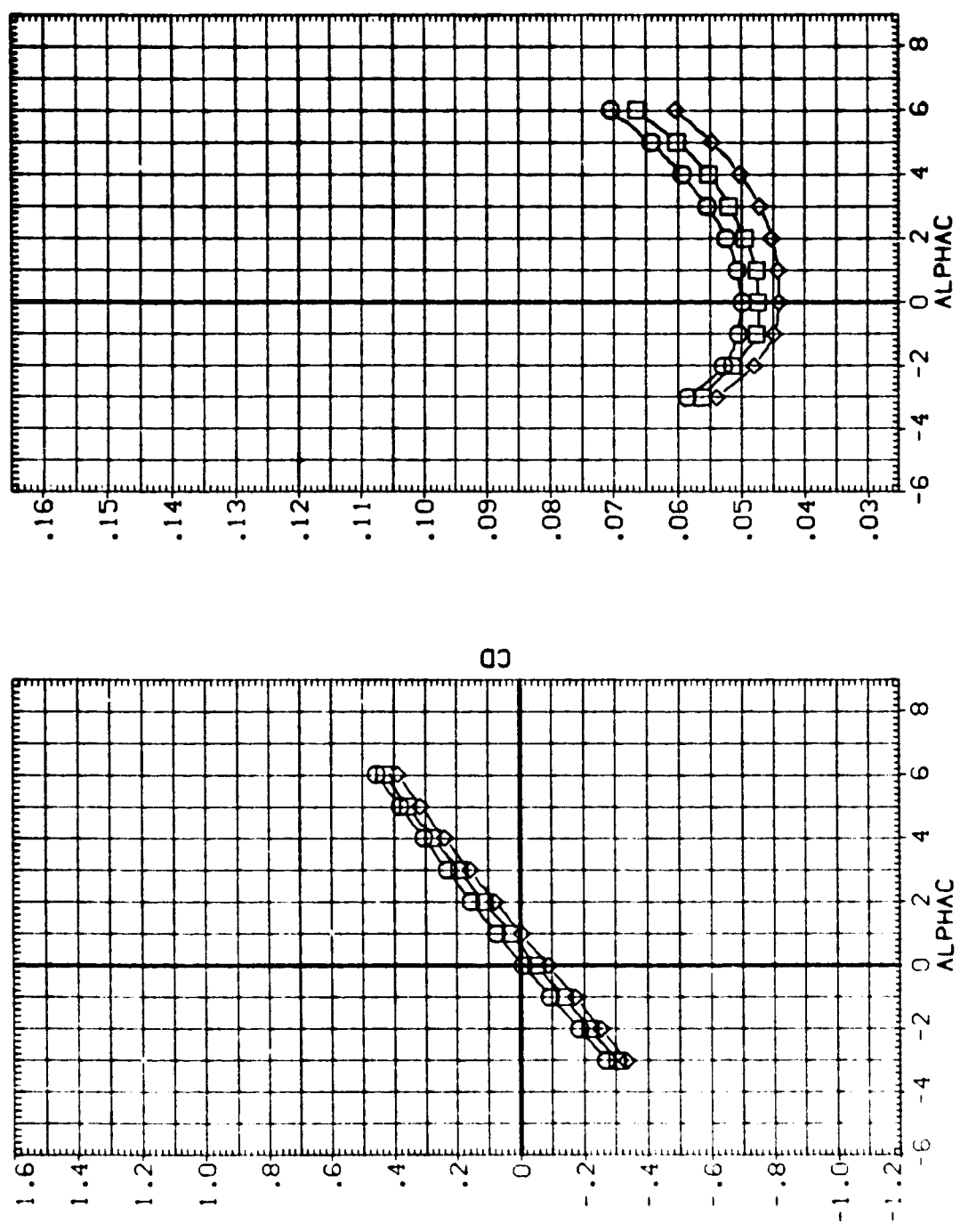


FIG. 9 CARRIER MATED AERO CHARACTERISTICS (INTERPOLATED I-ORB)

(A) MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	STAB-C	RUD-C	ELV-0	IAR08	REFERENCE INFORMATION
(YES-53)	ARC14-080-1 CA23 747/1(-S1-S12)01 AT1(CAR.MATED)	5.000	.000	5.000	6.000	SREF 5300.0000 SO.FT.
(YES-54)	ARC14-080-1 CA23 747/1(-S1-S12)01 AT1(CAR.MATED)	5.000	.000	5.000	8.000	LREF 327.7800 IN.
						BREF 2348.0400 IN.
						XMRP 1339.5000 IN. MC
						YMRP .0000 IN. YC
						ZMRP 190.7500 IN. ZC
						SCALE .0125

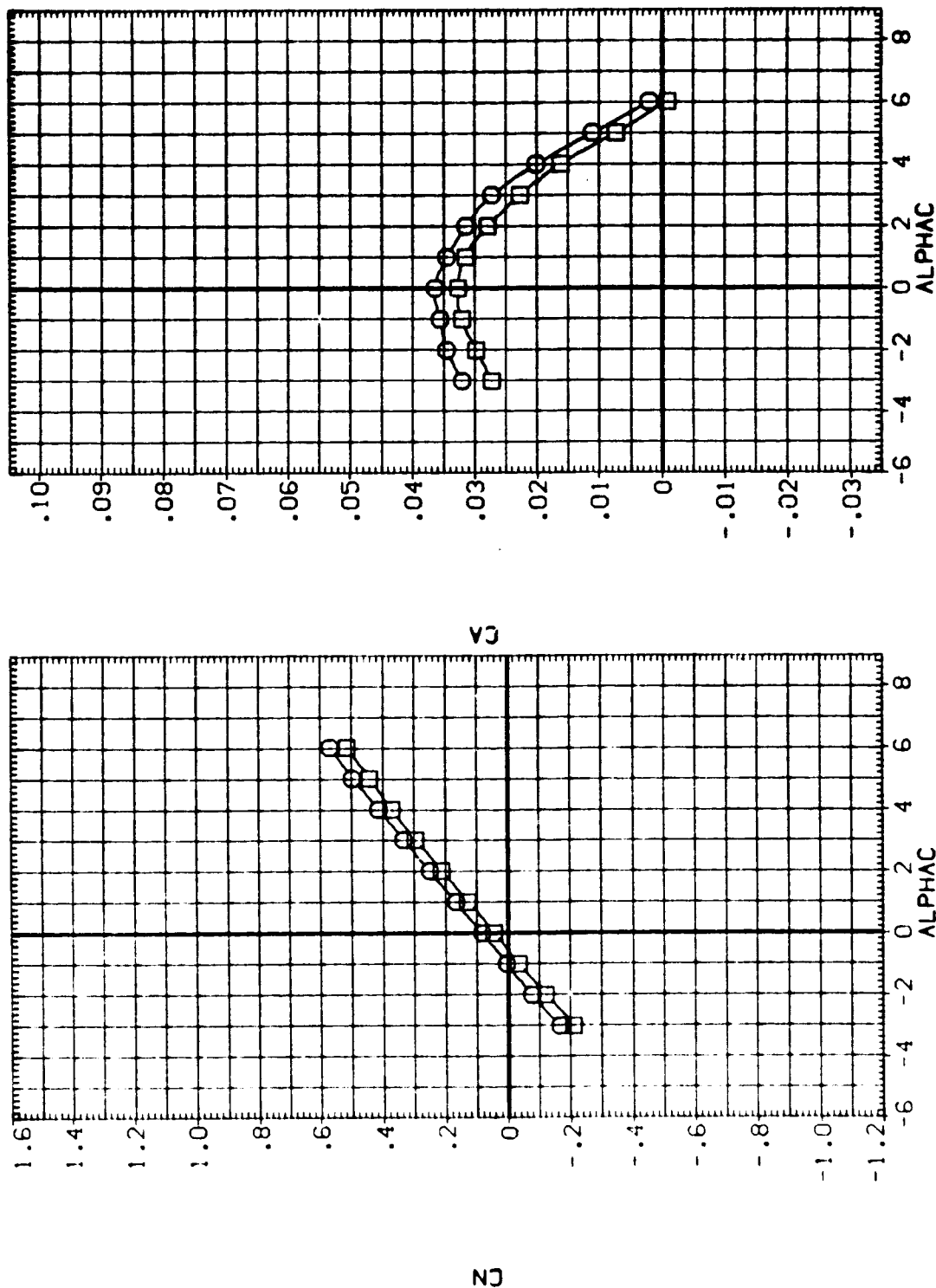
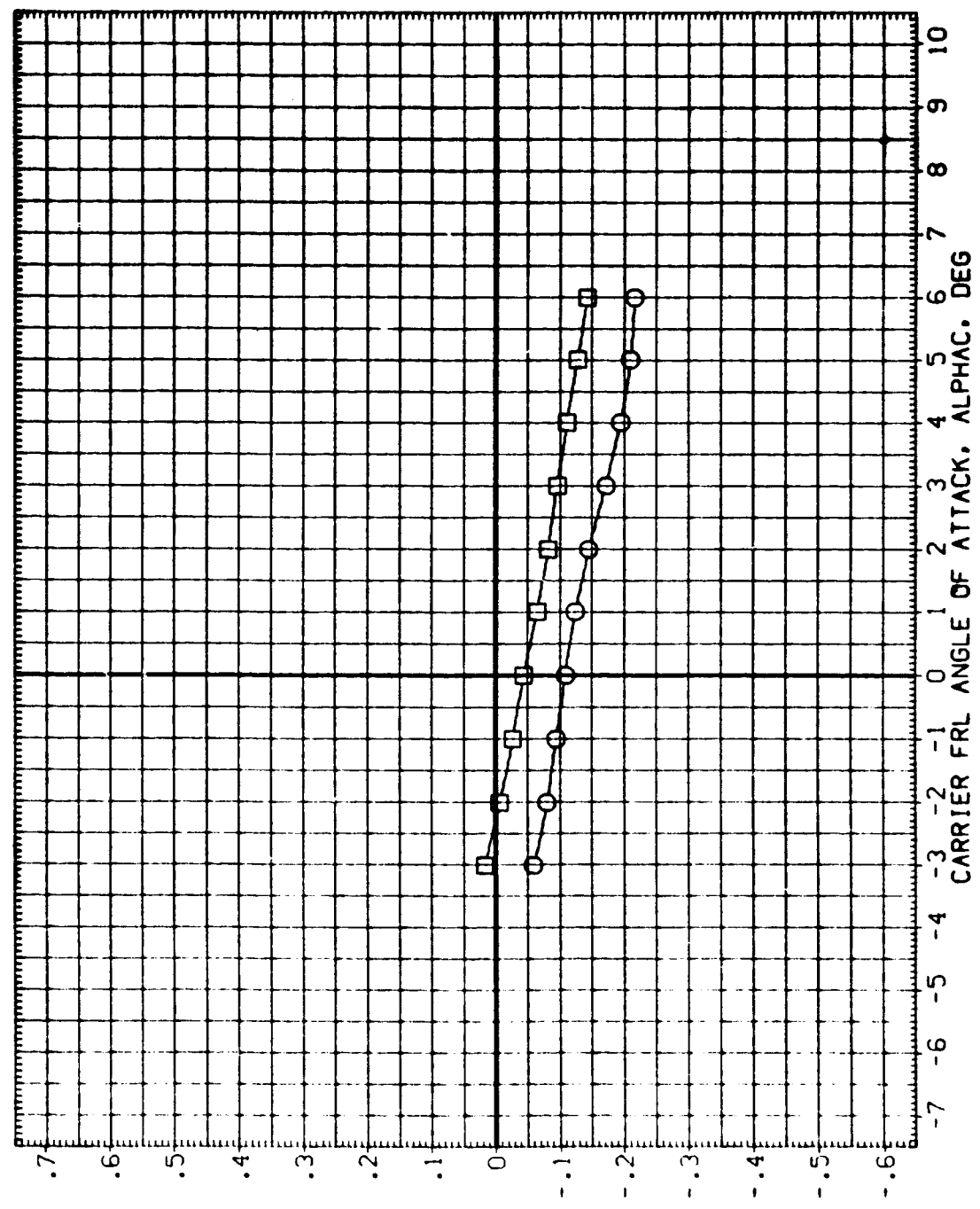


FIG. 9 CARRIER MATED AERO CHARACTERISTICS (INTERPOLATED I-088)

(A) MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	STAB-C	RUD-C	ELV-0	LAOR8	REFERENCE INFORMATION
(YESF53)	ARC14-080-1 CA23 747/1(-S1-S12)01 AT1(CAR,MATED)	5.000	.000	5.000	6.000	SREF 5500.0000 SG.FT.
(YESF54)	ARC14-080-1 CA23 747/1(-S1-S12)01 AT1(CAR,MATED)	5.000	.000	5.000	8.000	LREF 327.7000 IN.
						BREF 2348.0400 IN.
						YMRP 1339.8000 IN.
						ZMRP .0000 IN.
						SCALE 190.7500 IN.
						SCALE .0125



PITCHING MOMENT COEFFICIENT, CLM

FIG. 9 CARRIER MATED AERO CHARACTERISTICS (INTERPOLATED I-ORB)

(A)MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (YESF53) 9 ARC14-080-1 CA23 747/1(-S1-S12)01 A11(CAR,MATED)
 (YESF54) 9 ARC14-080-1 CA23 747/1(-S1-S12)01 A11(CAR,MATED)

IAOR8
 6.000
 8.000

ELV-0
 5.000
 5.000

RUD-C
 .000
 .000

STAB-C
 5.000
 5.000

AT1(CAR,MATED)

AT1(CAR,MATED)

REFERENCE INFORMATION

SRF 5500.0000 SQ.FT.
 LREF 327.7800 IN.
 BRPF 2348.0400 IN.
 XMRP 1339.5000 IN.
 YMRP .0000 IN.
 ZMRP 190.7500 IN.
 SCALE .0125

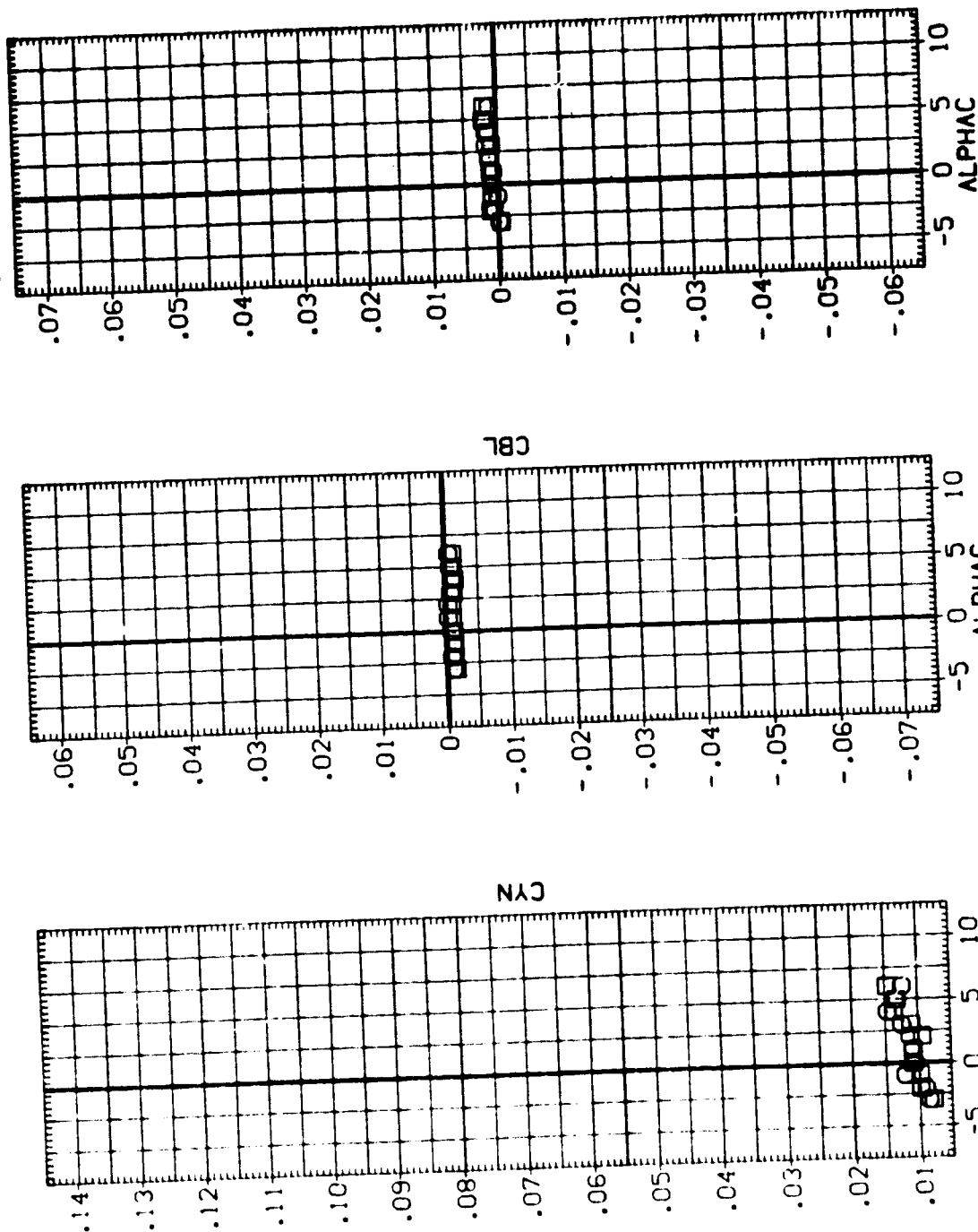


FIG. 9 CARRIER MATED AERO CHARACTERISTICS (INTERPOLATED I-OR8)

(A)MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (1E9F53) ARCL14-080-1 CA23 747/1(-S1-S12)01 AT1(CAR.MATED)
 (1E3F54) ARCL14-080-1 CA23 747/1(-S1-S12)01 AT1(CAR.MATED)

STAB-C RUO-C ELV-O IADRB
 5.000 .000 5.000 6.000
 5.000 .000 5.000 8.000

REFERENCE INFORMATION
 SREF 5500.0000 SQ.FT.
 LREF 327.7800 IN.
 GREF 2348.0400 IN.
 XMRP 1339.9000 IN.
 YMRP .0000 IN.
 ZMRP 190.7500 IN.
 SCALE .0125

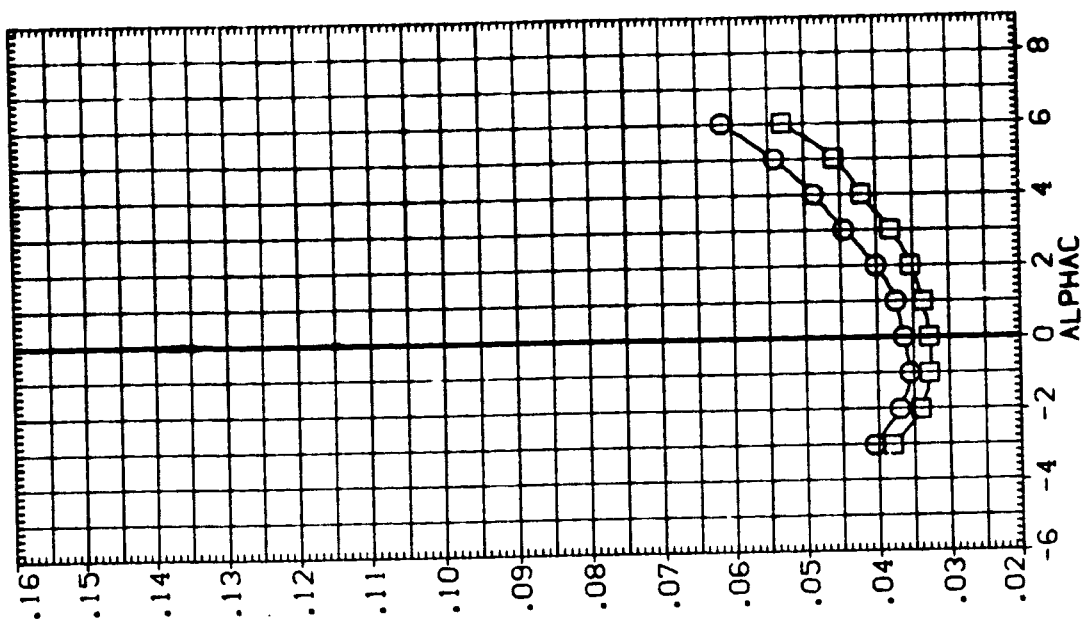
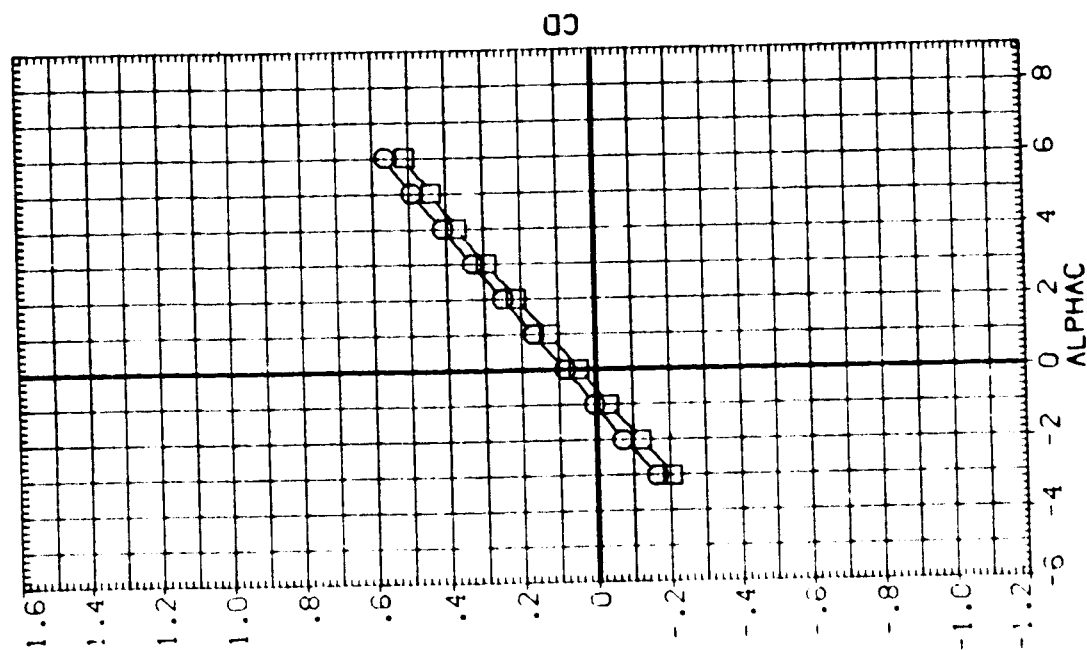


FIG. 9 CARRIER MATED AERO CHARACTERISTICS (INTERPOLATED I-ORB)

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	STAB-C	RUD-C	ELV-0	IACRB	REFERENCE INFORMATION
(4E9F59)	ARC14-080-1 CA23 747/1 03 AT1 (CAR,MATED)	-1.000	.000	.000	4.000	SREF 5500.0000 50.FT.
(4E9F63)	ARC14-080-1 CA23 747/1 03 AT1 (CAR,MATED)	-1.000	.000	.000	6.000	LREF 327.7800 IN.
						BREF 2348.0400 IN.
						XMRF 1338.9000 IN.
						VMRF .0000 IN.
						ZMRF 190.7500 IN.
						SCALE .0125

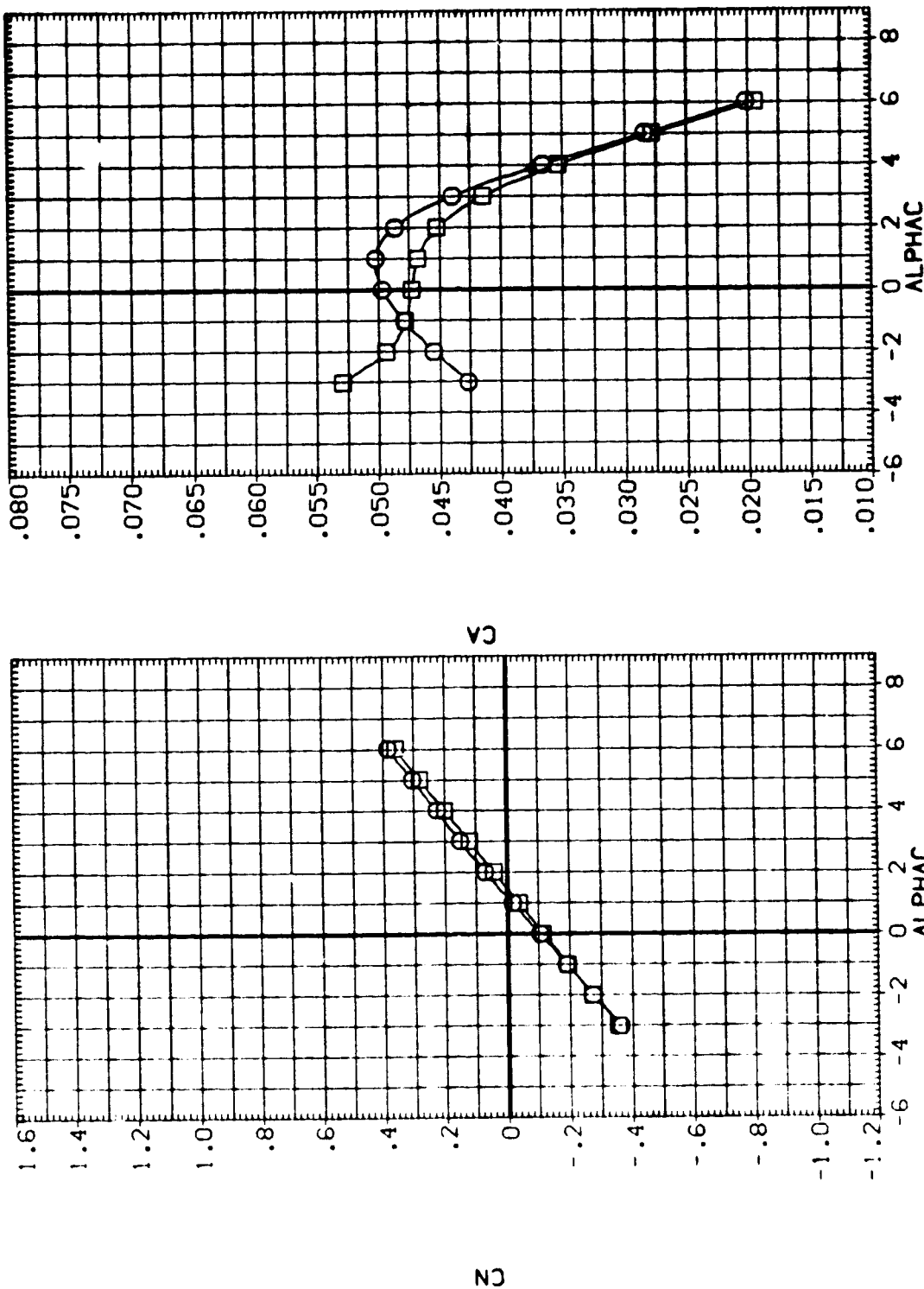


FIG. 9 CARRIER MATED AERO CHARACTERISTICS (INTERPOLATED I-08B)

(A)MACH = .60

DATA SET SYMBOL: (YES 59) (YES 60)

CONFIGURATION DESCRIPTION: ARC14-080-1 CA23 747/1 03 AT1 (CAR.MATED) ARC14-080-1 CA23 747/1 03 AT1 (CAR.MATED)

STAB-C: -1.000

RUD-C: .000

ELV-B: .000

IADB: 4.000

REFERENCE INFORMATION:

REF	50 FT.
SREF	5500.0000
LREF	327.7800
BREF	2348.0400
XMRP	1339.9000
YMRP	190.7500
ZMRP	190.7500
SCALE	.0125

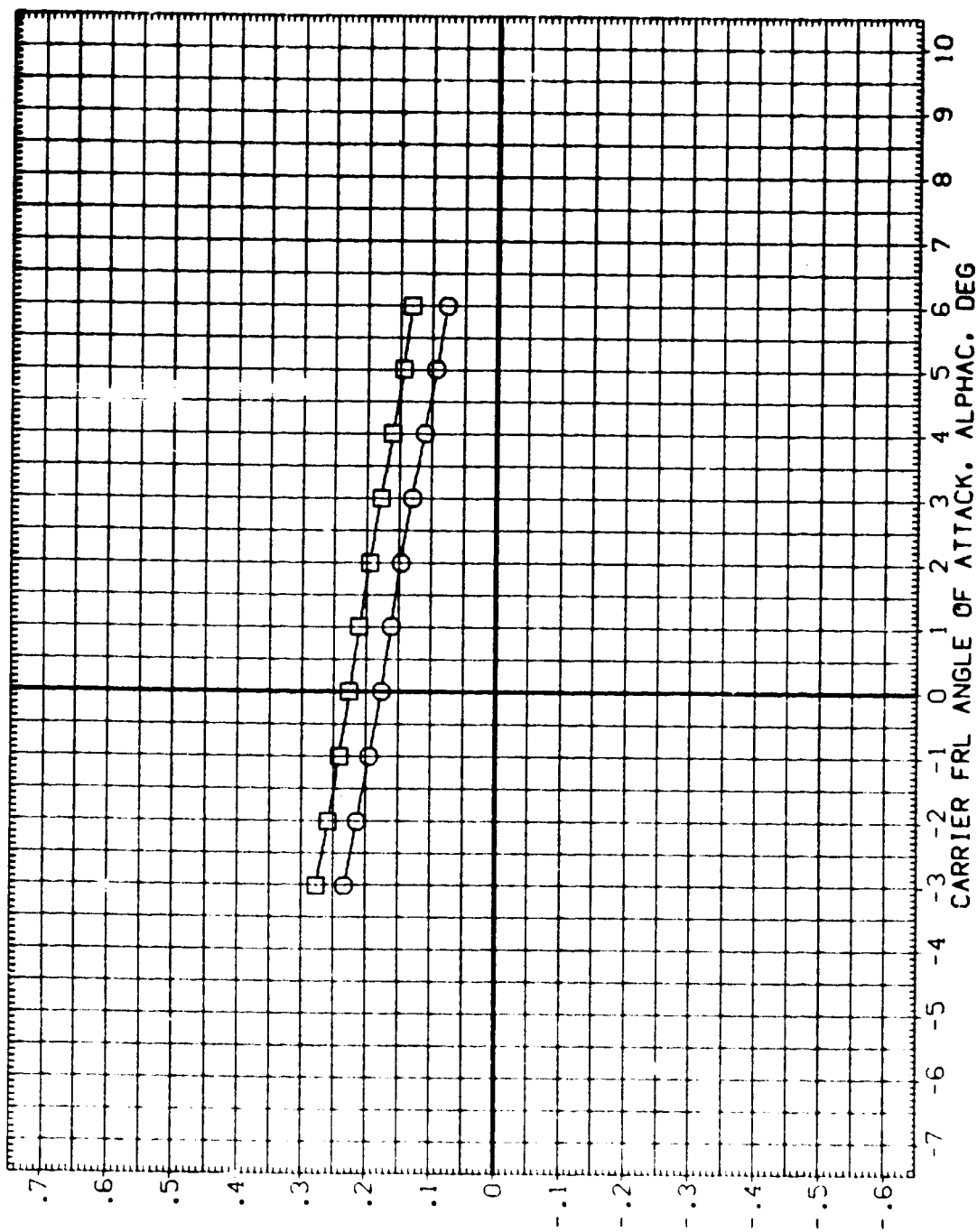


FIG. 9 CARRIER MATED AERO CHARACTERISTICS (INTERPOLATED I-08B)

(A)MACH = .60



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	STAB-C	RUD-C	ELV-B	IAR-B	REFERENCE INFORMATION
(VE959)	ARC14-080-1 CA23 747/1 03 AT1 (CAR.MATED)	-1.000	.000	.000	4.000	SREF 3300.0000 90.FT.
(VE960)	ARC14-080-1 CA23 747/1 03 AT1 (CAR.MATED)	-1.000	.000	.000	6.000	LREF 327.7000 IN.
						BREF 2349.0400 IN.
						XMRP 1339.5000 IN. XC
						YMRP .0000 IN. YC
						ZMRP 190.7500 IN. ZC
						SCALE .0125

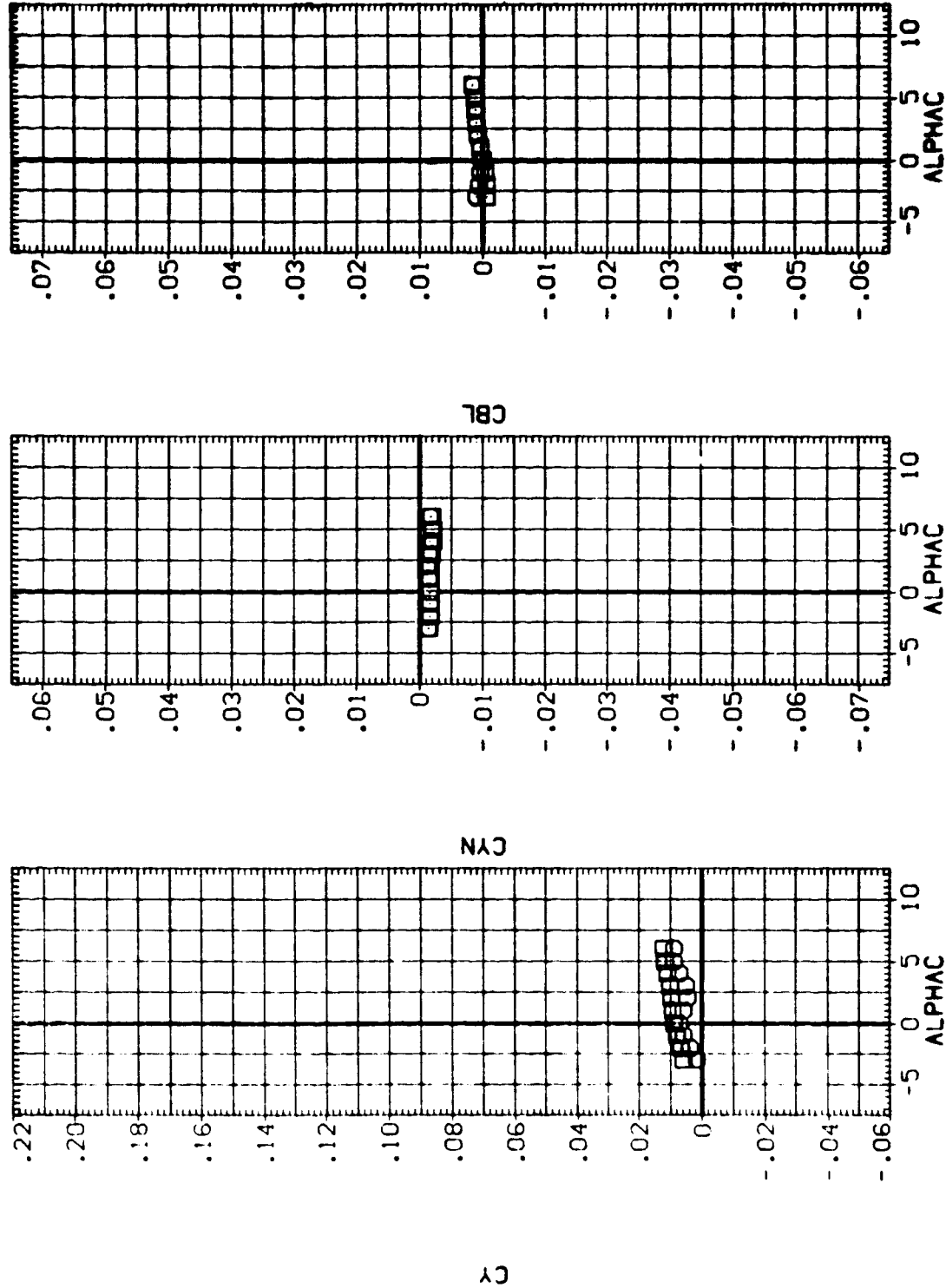


FIG. 9 CARRIER MATED AERO CHARACTERISTICS (INTERPOLATED I-088)

(A)MACH = .60

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DATA SET SYMBOL
(1E9F59)
(1E9F60)

CONFIGURATION DESCRIPTION
ARC14-080-1 CA23 747/1 03 AT1 (CAR.MATED)
ARC14-080-1 CA23 747/1 03 AT1 (CAR.MATED)

STAB-C RUO-C ELV-O IAOB8
-1.000 .000 .000 4.000
-1.000 .000 .000 6.000

REFERENCE INFORMATION
SREF 5500.0000 SQ.FT.
LREF 327.7800 IN.
BREF 2348.0400 IN.
XMRP 1339.9000 IN.
YMRP .0000 IN.
ZMRP 190.7500 IN.
SCALE .0125

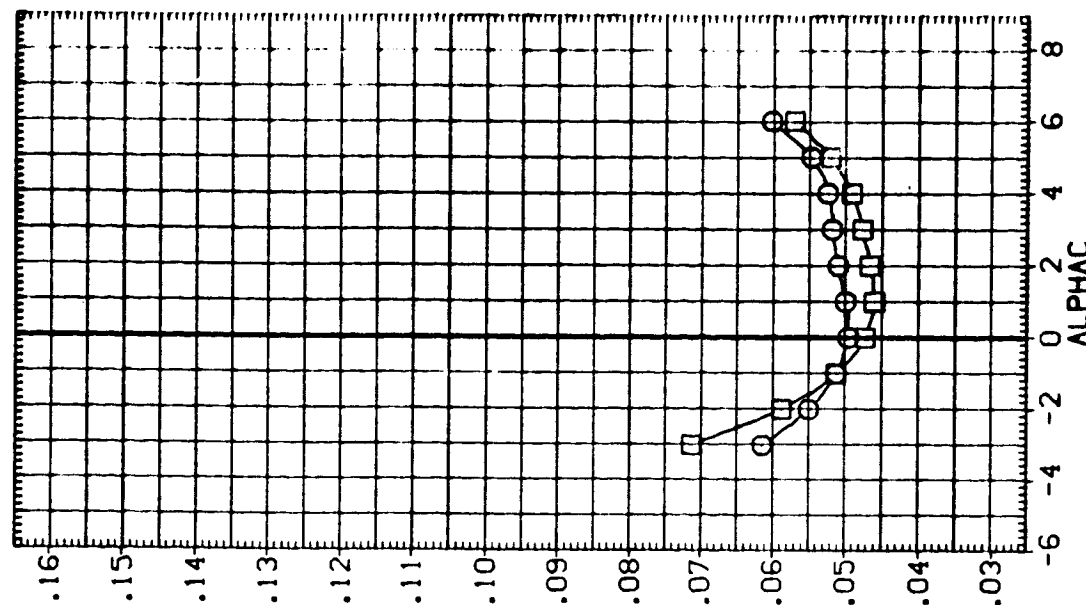
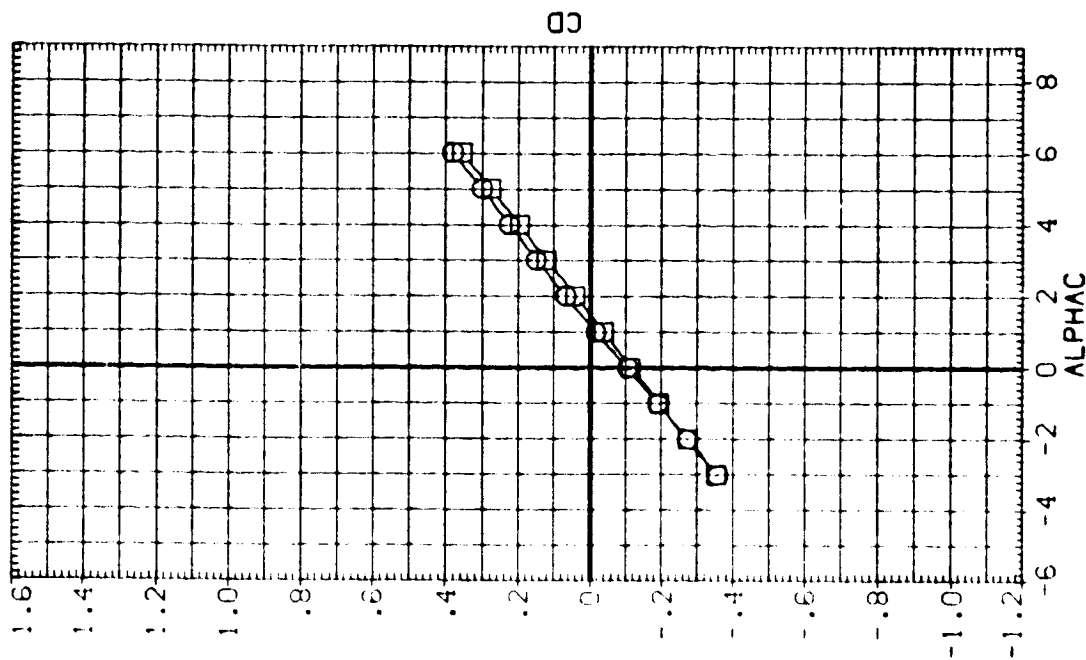


FIG. 9 CARRIER MATED AERO CHARACTERISTICS (INTERPOLATED I-ORB)

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETAC	STAB-C	ELV-0	IAORB	REFERENCE INFORMATION
(VE9F54)	ARC14-080-1 CA23 747/1(-S1-S12)01 AT1(CAR,MATED)	-5.000	5.000	5.000	6.000	SREF 5500.0000 SQ.FT.
(VE9F53)	ARC14-080-1 CA23 747/1(-S1-S12)01 AT1(CAR,MATED)	-5.000	5.000	5.000	8.000	LREF 327.7800 IN.
						BREF 2348.0400 IN.
						XMRP 1339.9000 IN.
						YMRP .0000 IN.
						ZMRP 190.7500 IN.
						SCALE .0125

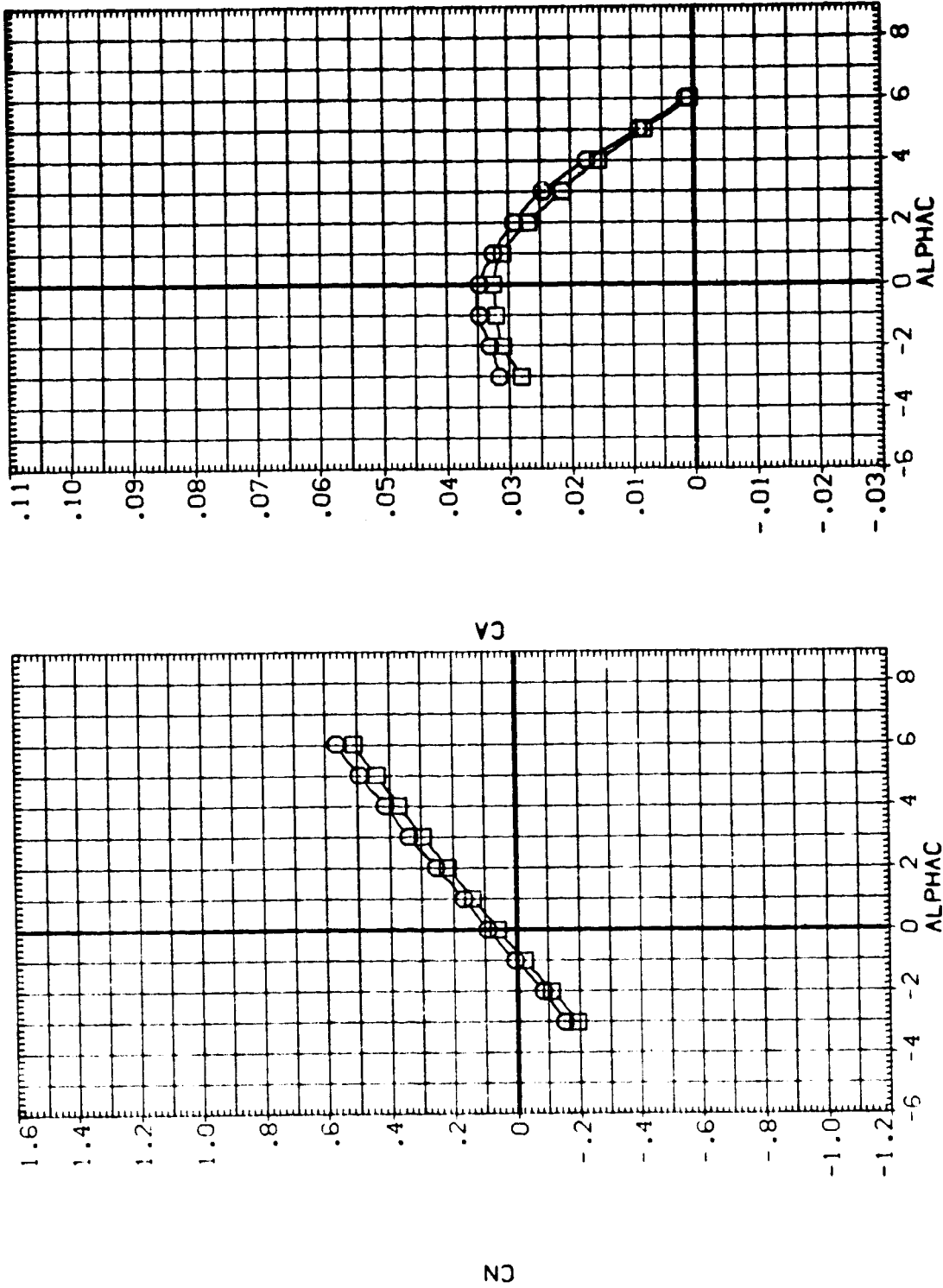


FIG. 9 CARRIER MATED AERO CHARACTERISTICS (INTERPOLATED I-ORB)

(A)MACH = .60

DATA SET SYMBOL: (VE9F84) (VE9F83)

CONFIGURATION DESCRIPTION: ARC:4-080-1 CA23 747/1(-S1-S12)01 AT1(CAR.MATED) ARC:4-080-1 CA23 747/1(-S1-S12)01 AT1(CAR.MATED)

REFERENCE INFORMATION: SREF 5500.0000 SQ.FT. LREF 327.7800 IN. BREF 2348.0400 IN. XMRP 1339.9000 IN. YMRP 0.0000 IN. ZMRP 190.7500 IN. SCALE .0125

BETAC STAB-C ELV-0 IAOB8

-5.000 5.000 6.000

-5.000 5.000 8.000

PITCHING MOMENT COEFFICIENT, CLM

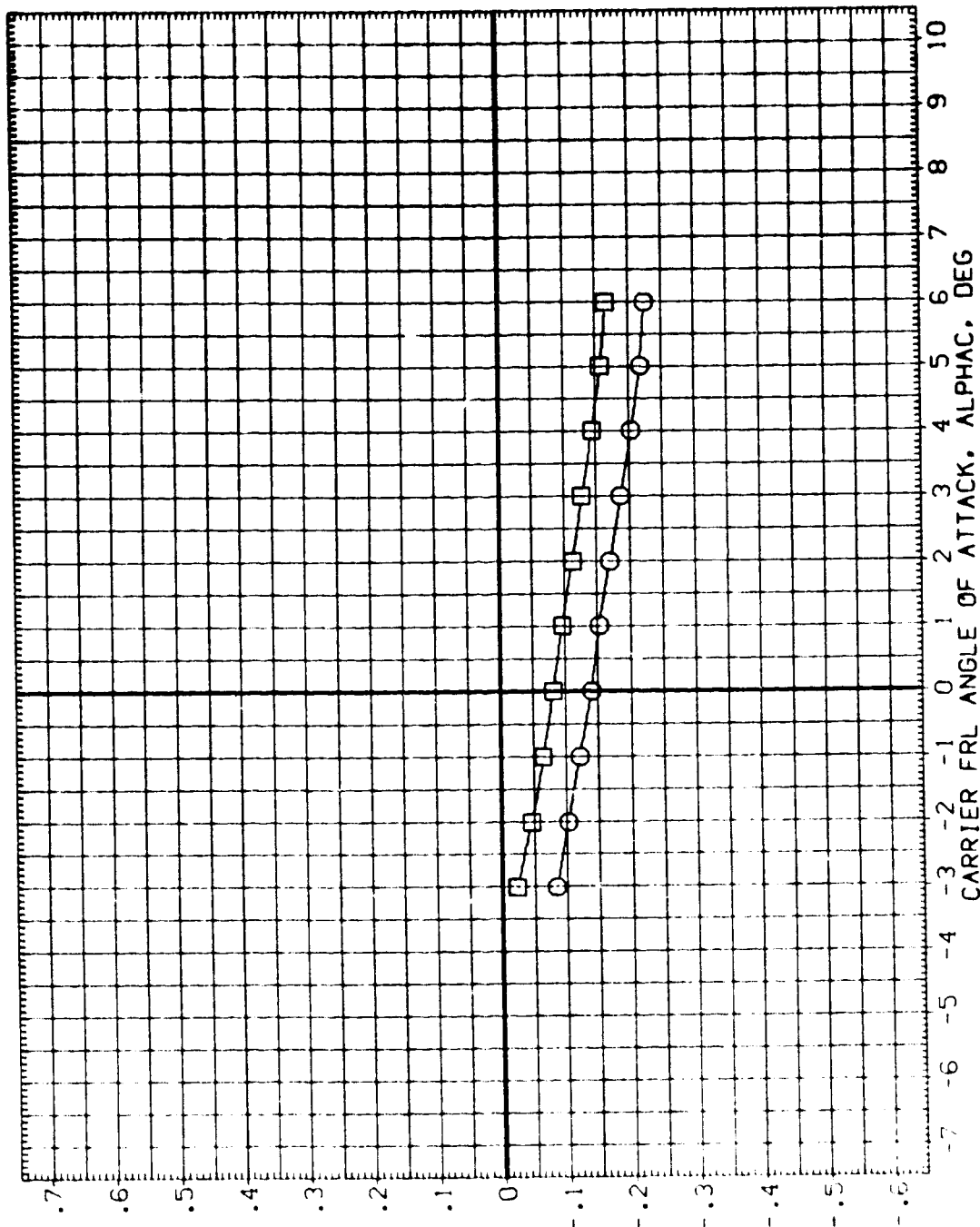


FIG. 9 CARRIER MATED AERO CHARACTERISTICS (INTERPOLATED I-ORB)

(A)MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (YES#64) ARC14-080-1 CA23 747/1 (-SI-S12)01
 (YES#63) ARC14-080-1 CA23 747/1 (-SI-S12)01

BETAC STAB-C ELV-0 IAOB8
 -5.000 5.000 5.000 6.000
 -5.000 5.000 5.000 8.000

REFERENCE INFORMATION
 SREF 5500.0000 SQ.FT.
 LREF 327.7800 IN.
 BREF 2348.0400 IN.
 XMRP 1339.9000 IN.
 YMRP 0.0000 IN.
 ZMRP 190.7500 IN.
 SCALE .0125

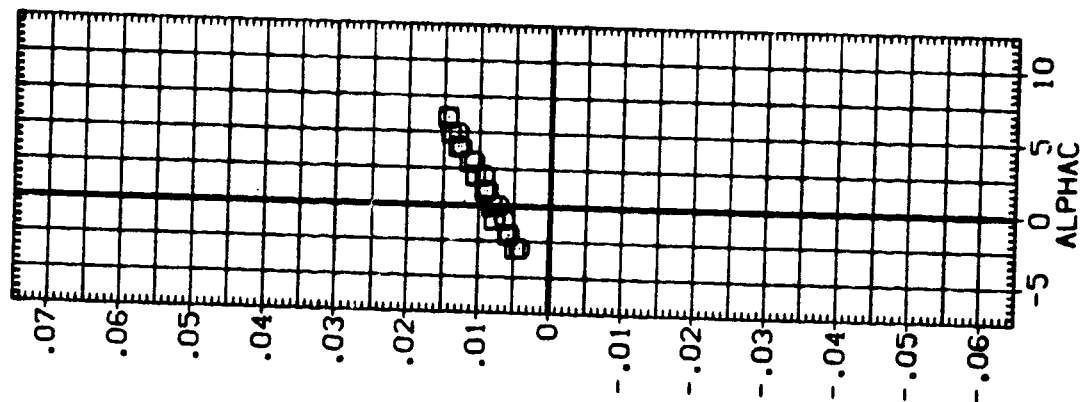
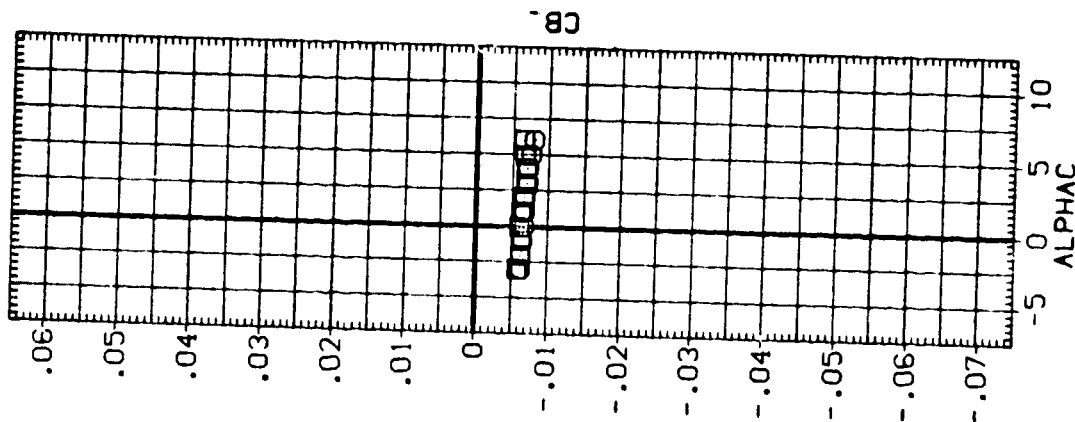
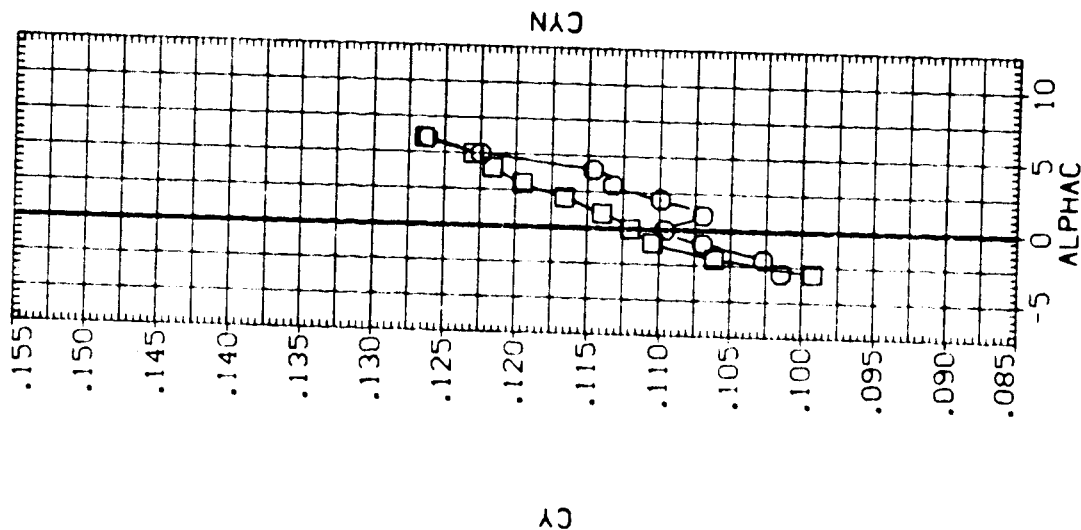


FIG. 9 CARRIER MATED AERO CHARACTERISTICS (INTERPOLATED I-088)
 (A) MACH = .60

DATA SET SYMBOL
(1E9F64)
(1E9F63)

CONFIGURATION DESCRIPTION
ARC14-080-1 CA23 747/1(-S1-S12)01 AT1(CAR.MATED)
ARC14-080-1 CA23 747/1(-S1-S12)01 AT1(CAR.MATED)

BETAC
-5.000
-5.000

STAB-C
5.000
5.000

ELV-0
5.000
5.000

IAORB
6.000
8.000

REFERENCE INFORMATION
SREF 5500.0000 50.FT.
LREF 327.7800 IN.
BREF 2348.0400 IN. MC
XMRP 1339.9000 IN. MC
YMRP 190.7500 IN. YC
ZMRP 190.7500 IN. ZC
SCALE .0125

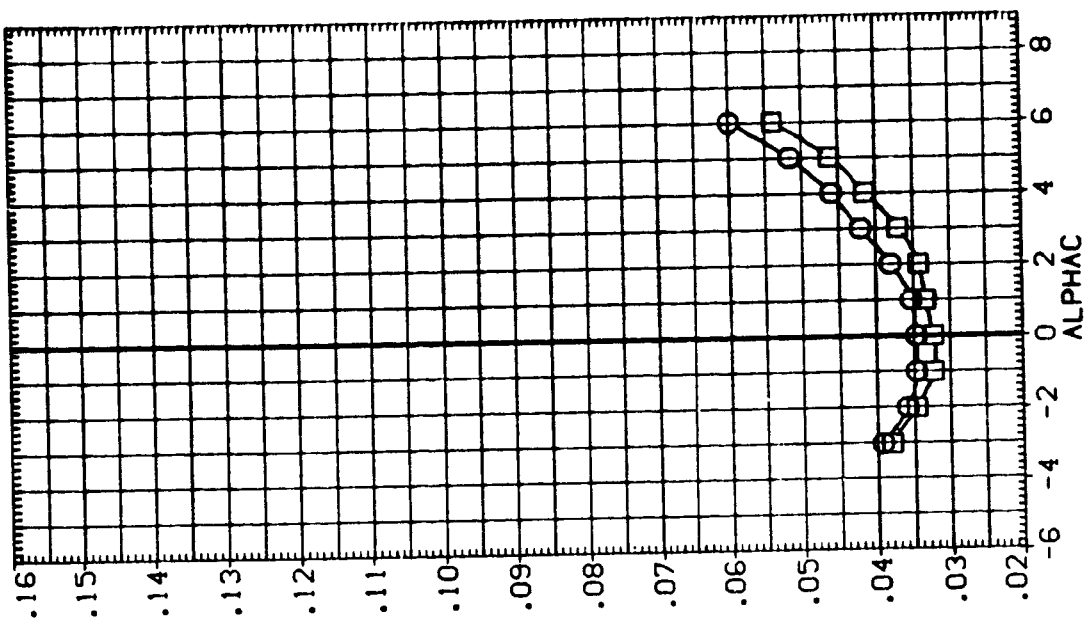
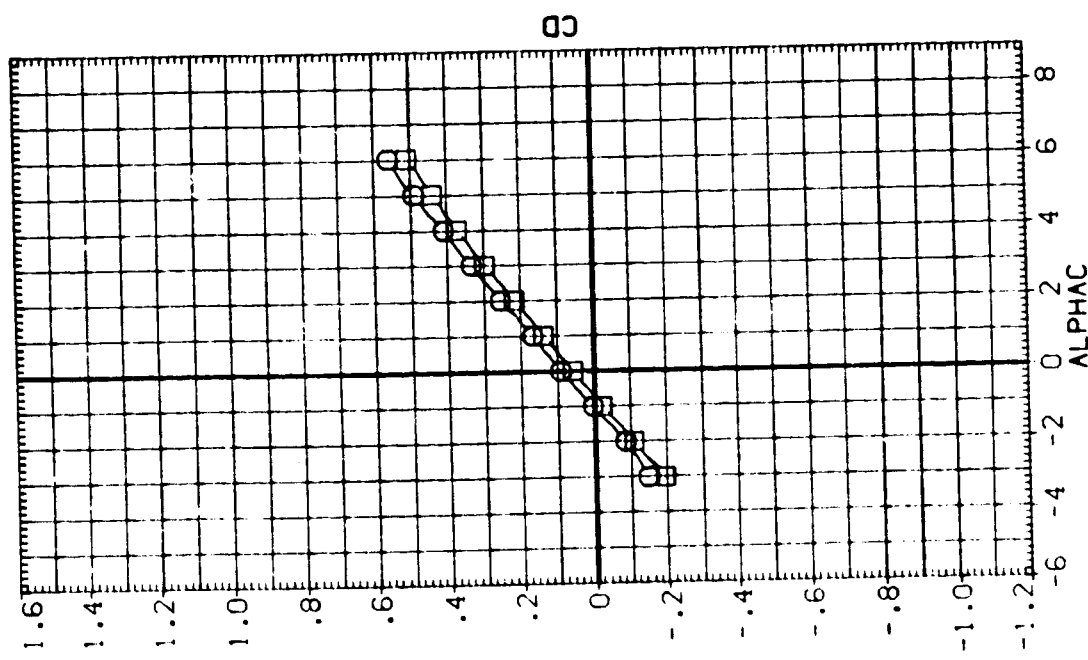


FIG. 9 CARRIER MATED AERO CHARACTERISTICS (INTERPOLATED I-ORB)

(A)MACH = .60



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETAC	STAB-C	ELV-O	IACRB	REFERENCE INFORMATION
(YESF66)	ARC14-080-1 CA23 747/1 01 AT1 (CAR.MATED)	-3.000	5.000	5.000	1.000	SRF 5900.0000 90.FT.
(YESF65)	ARC14-080-1 CA23 747/1 01 AT1 (CAR.MATED)	-3.000	5.000	5.000	6.000	SRF 327.7800 IN.
(YESF67)	ARC14-080-1 CA23 747/1 01 AT1 (CAR.MATED)	-3.000	5.000	5.000	6.000	SRF 2346.0400 IN.
						XMRP 1339.5000 IN. MC
						YMRP .0000 IN. VC
						ZMRP 190.7500 IN. ZC
						SCALE .0125

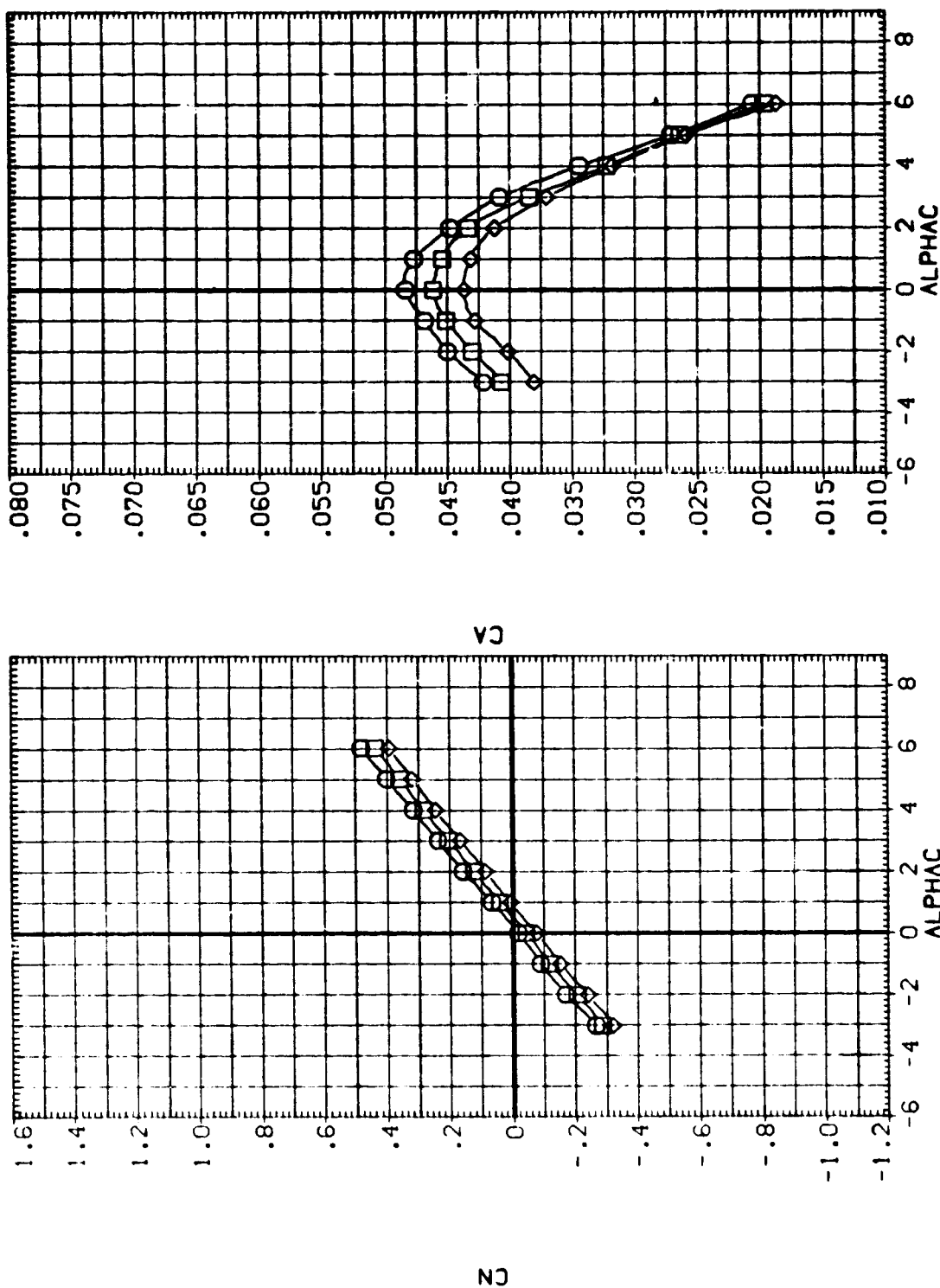


FIG. 9 CARRIER MATED AERO CHARACTERISTICS (INTERPOLATED I-08B)

(A)MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETAC	STAB-C	ELV-D	IAORB	REFERENCE INFORMATION
ARC14-080-1	CA23 747/1 01 AT1 (CAR,MATED)	-5.000	5.000	5.000	4.000	SREF 5500.0000 SO.FT.
ARC14-080-1	CA23 747/1 01 AT1 (CAR,MATED)	-5.000	5.000	5.000	6.000	LREF 327.7800 IN.
ARC14-080-1	CA23 747/1 01 AT1 (CAR,MATED)	-5.000	5.000	5.000	8.000	BREF 2348.0400 IN.
						XMRP 1339.9000 IN. MC
						YMRP -0000 IN. VC
						ZMRP 190.7500 IN. ZC
						SCALE .0125

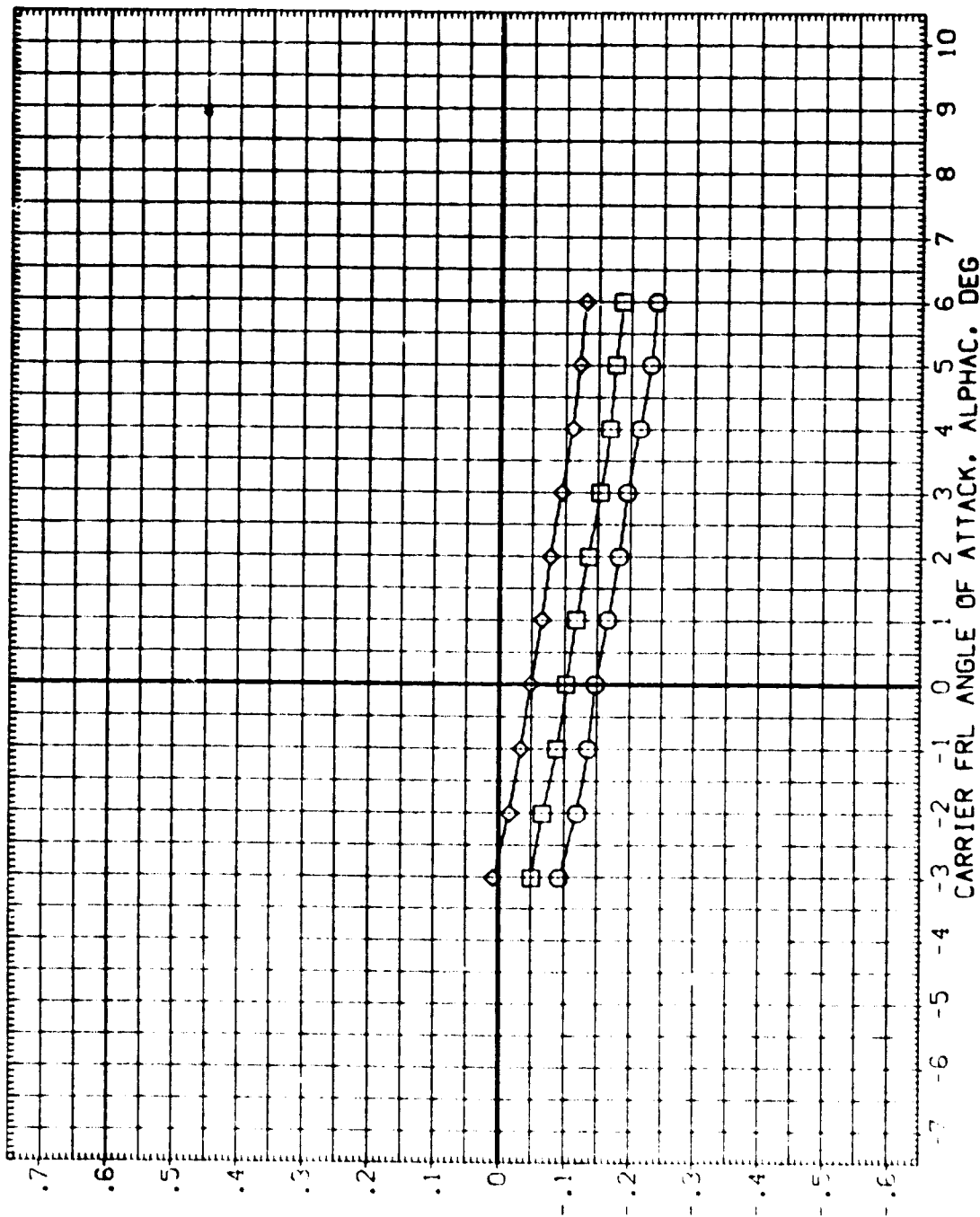


FIG. 9 CARRIER MATED AERO CHARACTERISTICS (INTERPOLATED I-ORB)

(A)MACH = .60

DATA SET SYMBOL	CONF	DESCRIPTION	PT/CM
(YES66)	ARC14-080-1	CA23 747/1 01	ATI (CAR.MATED)
(YES65)	ARC14-080-1	CA23 747/1 01	ATI (CAR.MATED)
(YES67)	ARC14-080-1	CA23 747/1 01	ATI (CAR.MATED)

IAOR8	ELV-0	STAB-C	BETAC
4.000	5.000	5.000	-5.000
6.000	5.000	5.000	-5.000
8.000	5.000	5.000	-5.000

REFERENCE INFORMATION	
SREF	5500.0000 SQ.FT.
LREF	327.7800 IN.
BREF	2348.0.00 IN.
XMRP	1339.9000 IN. MC
YMRP	0.0000 IN. YC
ZMRP	190.7500 IN. ZC
SCALE	.0125

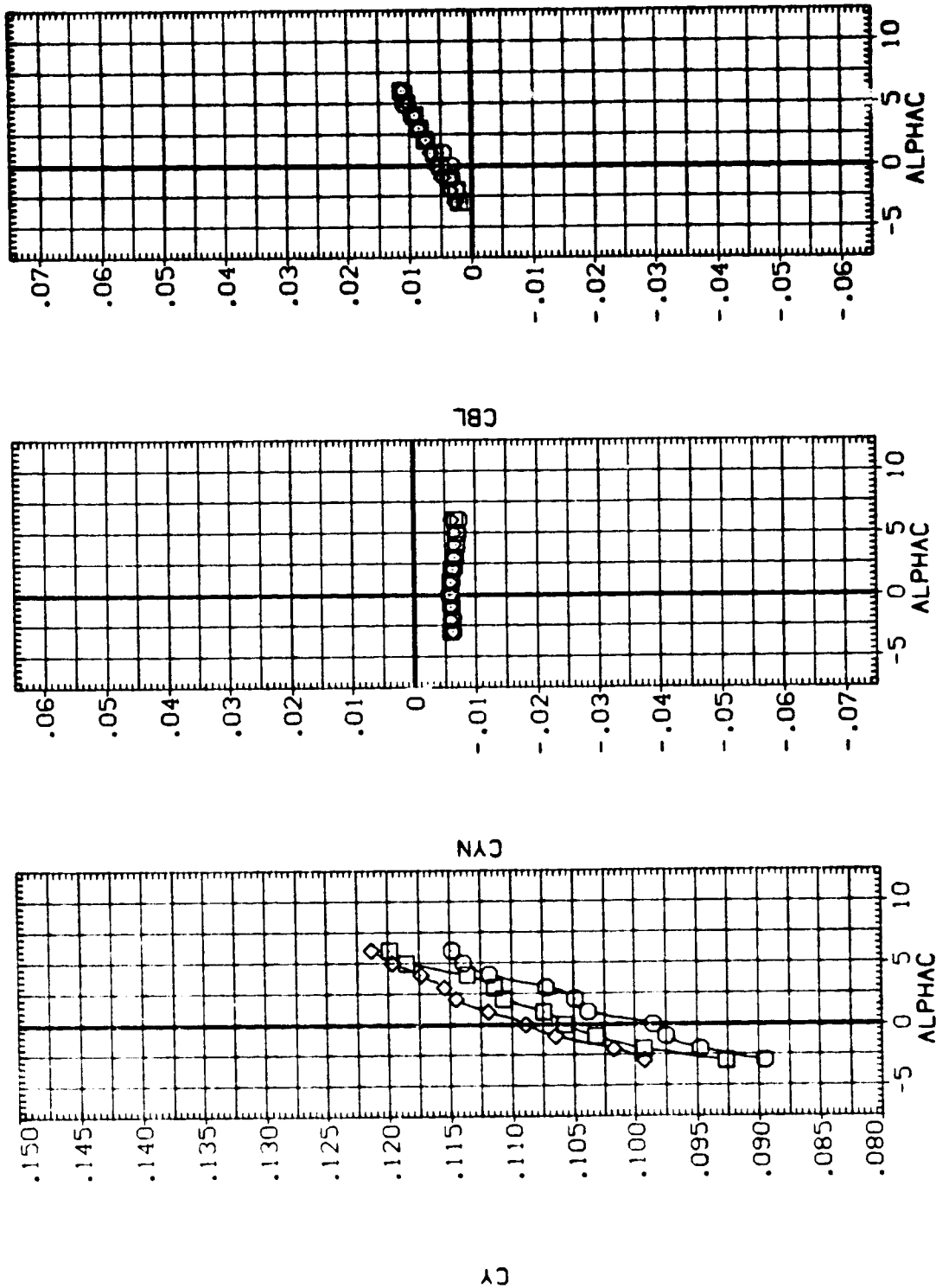


FIG. 9 CARRIER MATED AERO CHARACTERISTICS (INTERPOLATED I-088)

(A)MACH = .60

DATA SET SYMBOL
(YES66)
(YES65)
(YES67)

CONFIGURATION DESCRIPTION

ARC14-080-1 CA23 747/1 01 AT1 (CAR,MATED)
ARC14-080-1 CA23 747/1 01 AT1 (CAR,MATED)
ARC14-080-1 CA23 747/1 01 AT1 (CAR,MATED)

BETAC STAB-C ELV-0 IAORB
-5.000 5.000 4.000
-5.000 5.000 6.000
-5.000 5.000 8.000

REFERENCE INFORMATION
SREF 5500.0000 50.FT.
LREF 327.7800 IN.
BREF 2348.0400 IN.
XMRP 1339.9000 IN.
YMRP 190.7500 IN.
ZMRP 190.7500 IN.
SCALE .0125

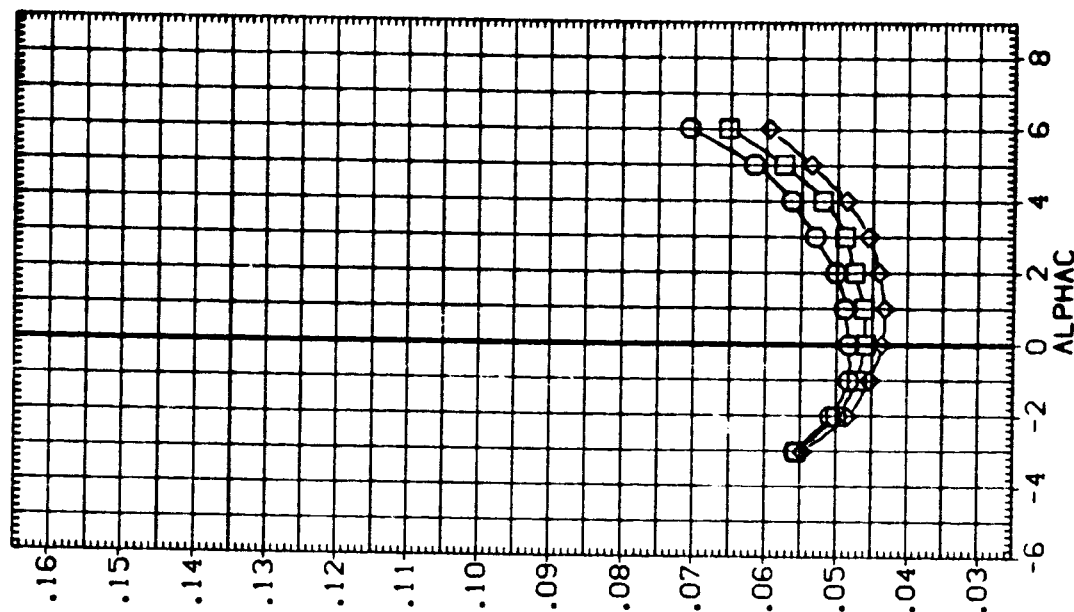
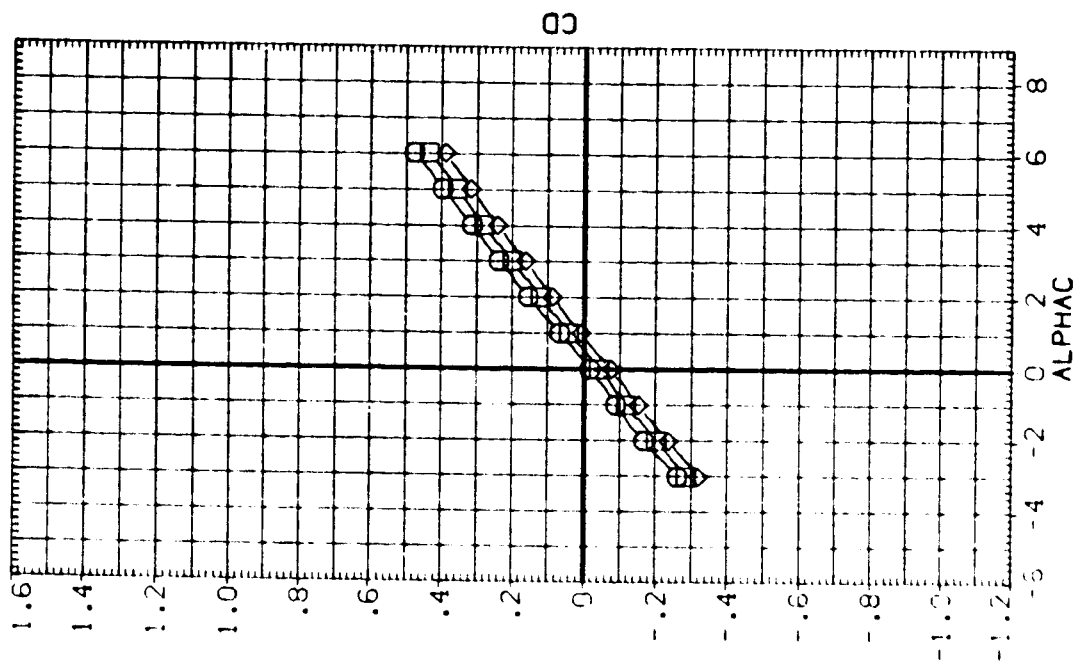


FIG. 9 CARRIER MATED AERO CHARACTERISTICS (INTERPOLATED I-ORB)

(A)MACH = .60



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	STAB-C	RUD-C	ELV-0	IAORB	REFERENCE INFORMATION
(N5047)	ABC14-080-1 CA23 747/1 01 AT1 (MATED)	5.000	.000	5.000	4.000	SREF 5500.0000 SO.FT.
(N5047)	ABC14-080-1 CA23 747/1 01 AT1 (MATED)	5.000	.000	5.000	6.000	LREF 327.7800 IN.
(N5047)	ABC14-080-1 CA23 747/1 01 AT1 (MATED)	5.000	.000	5.000	8.000	BREF 2348.0400 IN.
						XMRP 1339.9000 IN. XC
						YMRP .0000 IN. YC
						ZMRP 190.7500 IN. ZC
						SCALE .0125

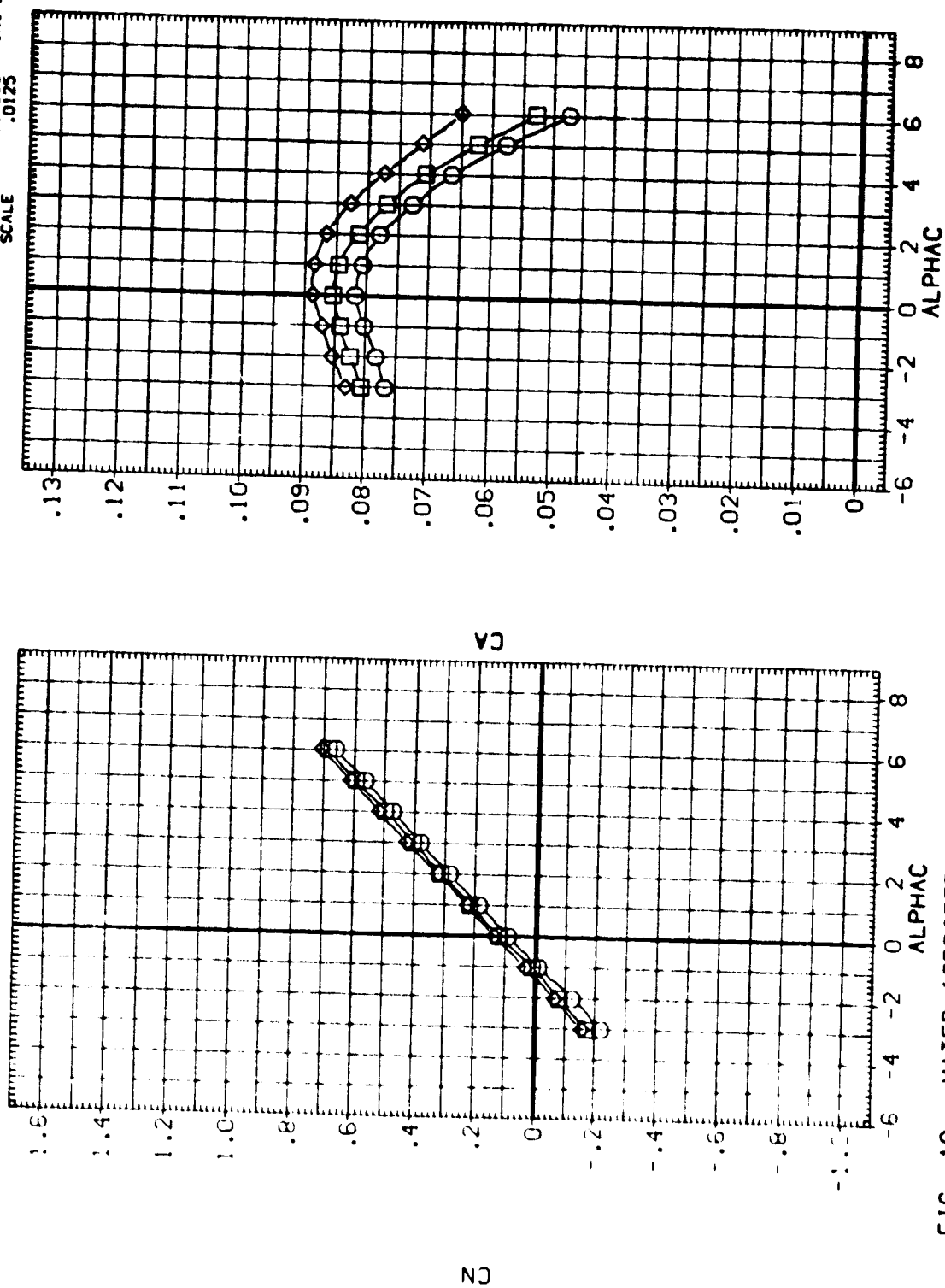


FIG. 10 MATED (ORBITER + CARRIER) AERO CHARACTERISTICS (INTERPOLATED I-ORB)

CAMBER = .60

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

DATA SET SYMBOL

1-580-1 01 AT1 (MATED)
 1-580-1 01 AT1 (MATED)
 1-580-1 01 AT1 (MATED)

CONFIGURATION DESCRIPTION

1-580-1 01 AT1 (MATED)
 1-580-1 01 AT1 (MATED)
 1-580-1 01 AT1 (MATED)

STAB-C
 5.000
 5.000
 5.000

RUO-C
 .000
 .000
 .000

ELV-B
 5.000
 5.000
 5.000

IADRB
 4.000
 6.000
 8.000

REFERENCE INFORMATION
 SREF 5000.0000 SQ.FT.
 LREF 277.7800 IN.
 BREF 2348.0400 IN.
 XPRP 1339.5000 IN.
 YPRP .0000 IN.
 ZPRP 190.7500 IN.
 SCALE .0125

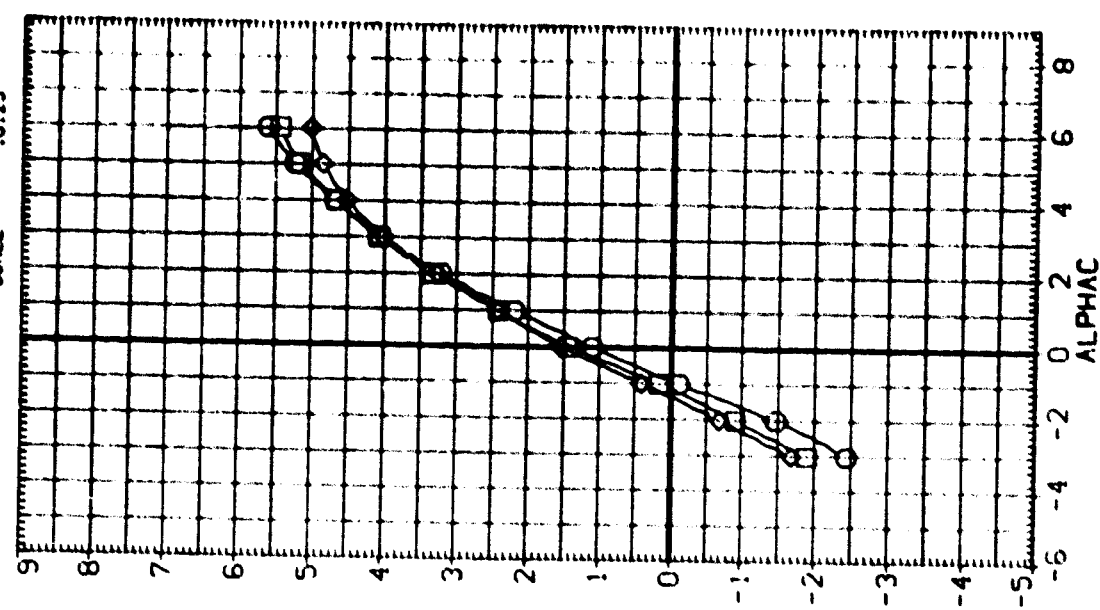
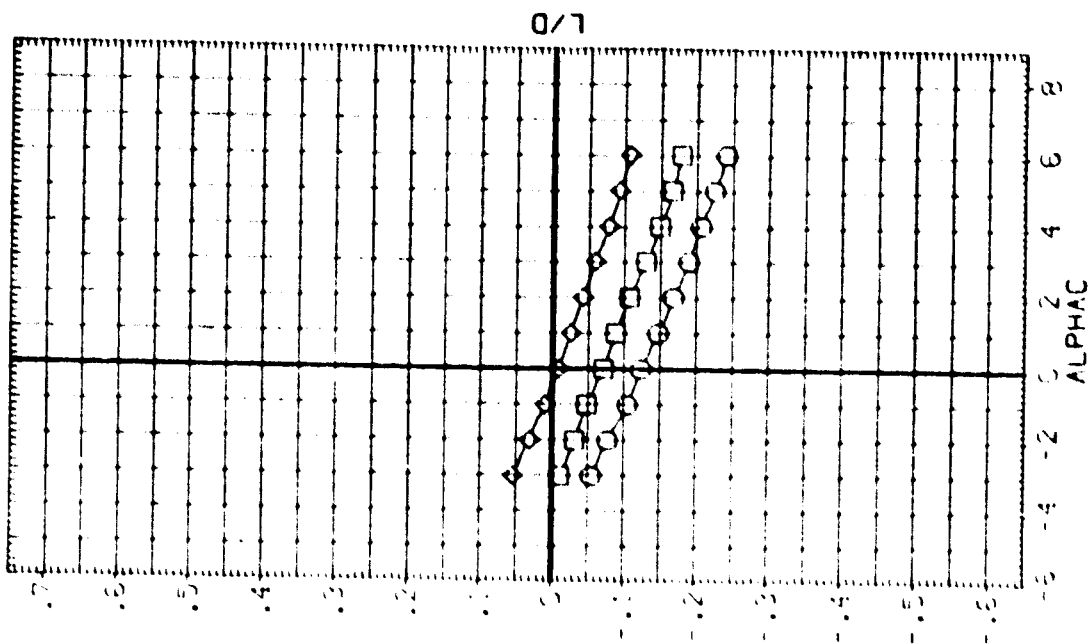


FIG. 10 MATED (ORBITER + CARRIER) AERO CHARACTERISTICS (INTERPOLATED I-OR8)

DATA SET 3-7820
 (NE 540)
 (NE 540A)
 (NE 540B)

CONJURATION DESCRIPTION
 ARC 14-080-1 CA23 747/1 01 AT1 (MATED)
 ARC 14-080-1 CA23 747/1 01 AT1 (MATED)
 ARC 14-080-1 CA23 747/1 01 AT1 (MATED)

STAB-C RUO-C ELV-0 IADRB
 5.000 .000 5.000 4.000
 5.000 .000 5.000 6.000
 5.000 .000 5.000 8.000

REFERENCE INFORMATION
 SREF 5500.0000 SQ.FT.
 LREF 327.7600 IN.
 BREF 2348.0400 IN.
 XMRP 1339.9000 IN.
 YMRP .0000 IN.
 ZMRP 190.7500 IN.
 SCALE .0125

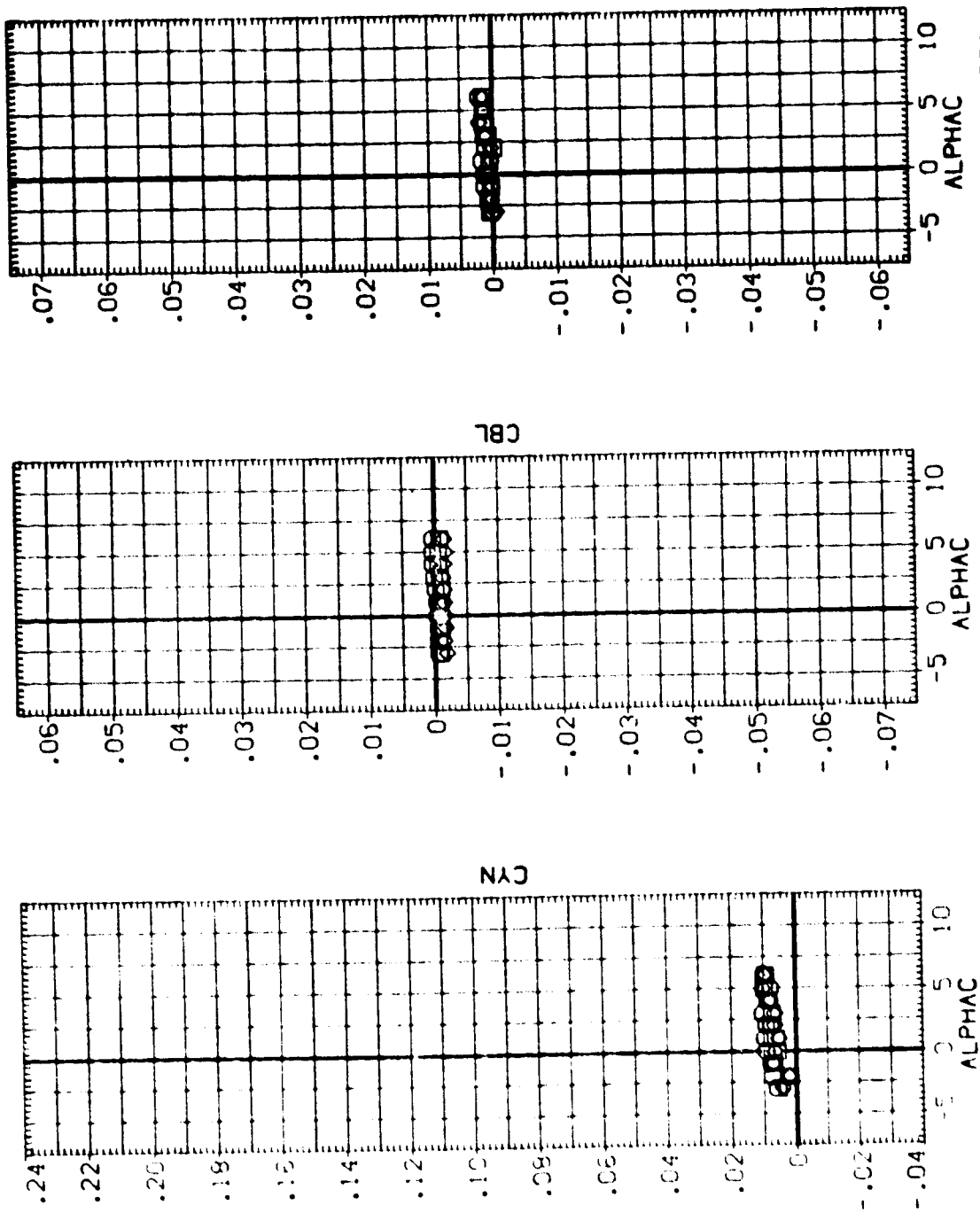


FIG. 10 MATED (ORBITER + CARRIER) AERO CHARACTERISTICS (INTERPOLATED I-OR8)

(A) MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (NEG-47) CA23 747/1 01 AT1 (MATED)
 (NEG-24) CA23 747/1 01 AT1 (MATED)
 (NEG-37) CA23 747/1 01 AT1 (MATED)

STAB-C RUO-C ELV-0 IAOB8
 5.000 .000 5.000 4.000
 5.000 .000 5.000 6.000
 5.000 .000 5.000 8.000

REFERENCE INFORMATION
 SREF 9500.0000 50.FT.
 LREF 327.7600 IN.
 BREF 2346.0400 IN.
 XWRP 1339.0000 IN. MC
 YWRP .0000 IN. VC
 ZWRP 190.7500 IN. ZC
 SCALE .0125

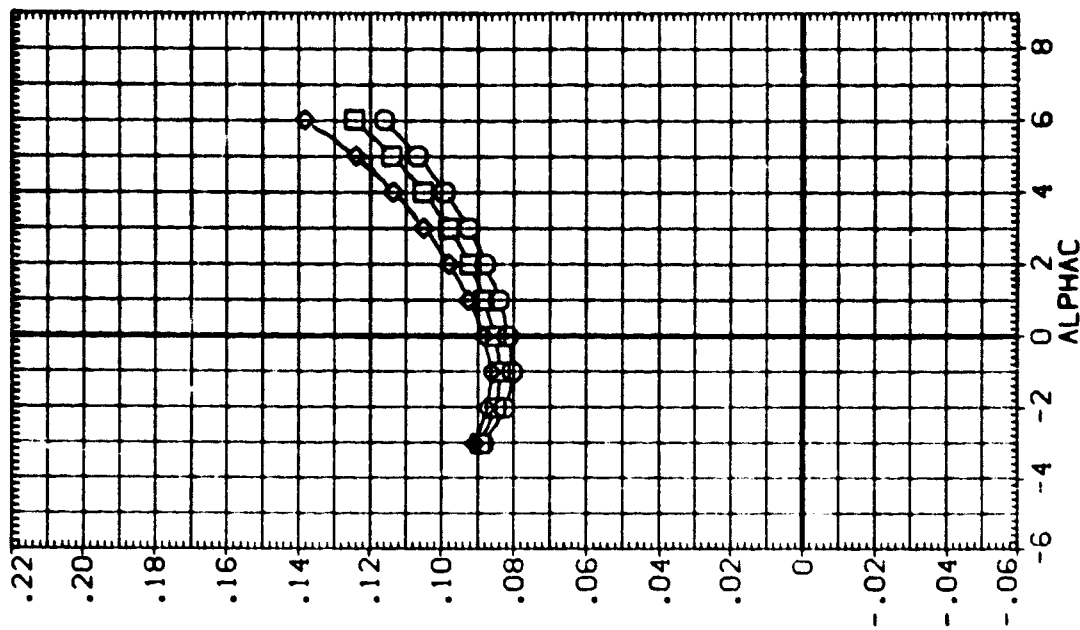
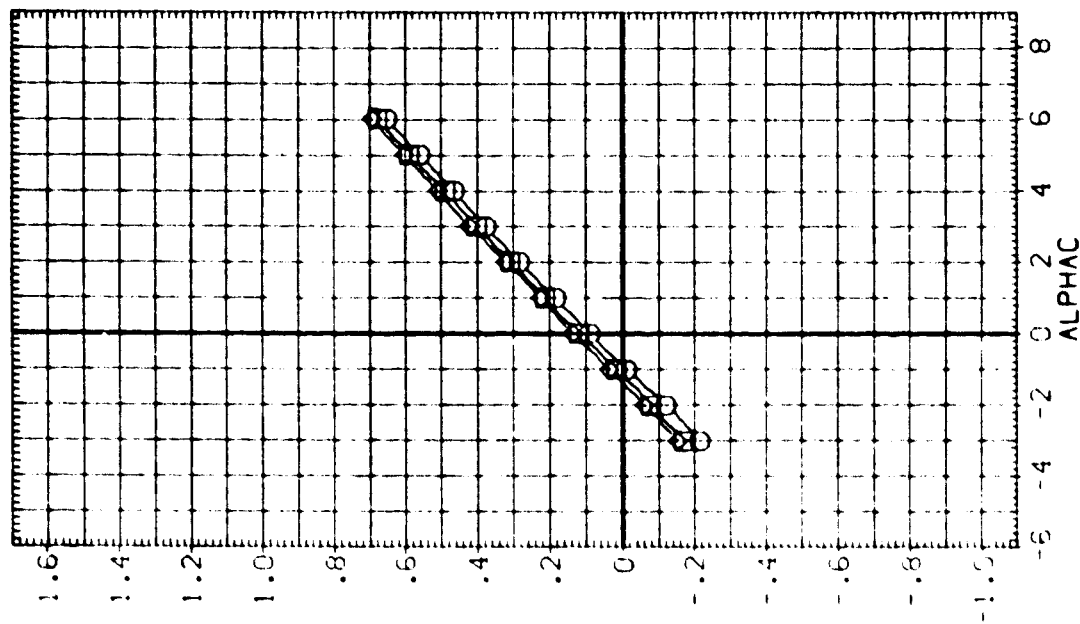


FIG. 10 MATED (ORBITER + CARRIER) AERO CHARACTERISTICS (INTERPOLATED I-ORB)
 (A) MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	STAB-C	RUD-C	ELV-0	IACRB	REFERENCE INFORMATION
(NE-048)	ARC14-080-1 CA23 747/1 01 AT1 (MATED)	5.000	10.000	5.000	4.000	SREF 5500.0000 SQ.FT.
(NE-027)	ARC14-080-1 CA23 747/1 01 AT1 (MATED)	5.000	10.000	5.000	6.000	LREF 327.7800 IN.
(NE-038)	ARC14-080-1 CA23 747/1 01 AT1 (MATED)	5.000	10.000	5.000	8.000	BREF 2348.0400 IN.
						XMRP 1339.9000 IN. XC
						YMRP .0000 IN. YC
						ZMRP 190.7500 IN. ZC
						SCALE .0125

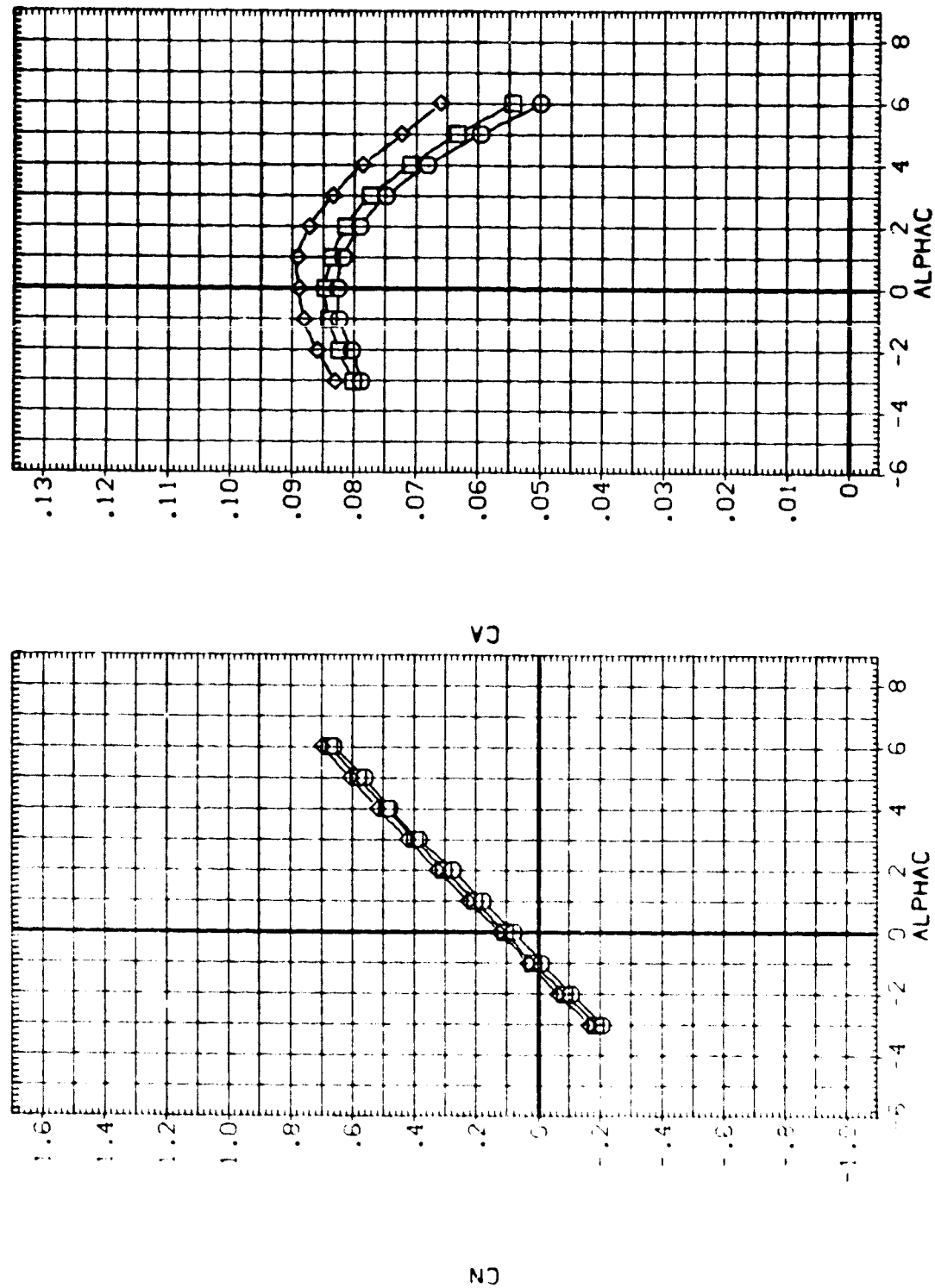


FIG. 10 MATED (ORBITER + CARRIER) AERO CHARACTERISTICS (INTERPOLATED I-ORB)

(MACH) = .60

DATA SET SYMBOL
(NE9045)
(NE9046)
(NE9047)
(NE9048)

CONFIGURATION DESCRIPTION

ARC14-080-1 CA23 747/1 01 AT1 (MATED)
ARC14-080-1 CA23 747/1 01 AT1 (MATED)
ARC14-080-1 CA23 747/1 01 AT1 (MATED)

STAB-C
5.000
5.000
5.000

RUD-C
10.000
10.000
10.000

ELV-0
5.000
5.000
5.000

IADRB
4.000
6.000
8.000

REFERENCE INFORMATION
SREF 5500.0000 SO.FT.
LREF 327.7800 IN.
BREF 2348.0400 IN.
YMRP 1339.9000 IN.
ZMRP 190.7500 IN.
SCALE .0125

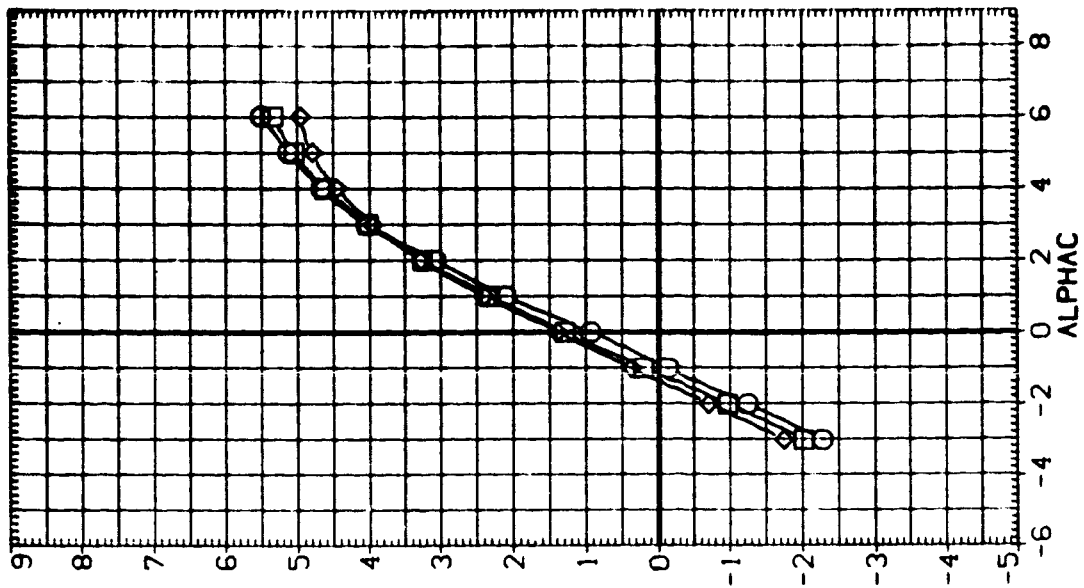
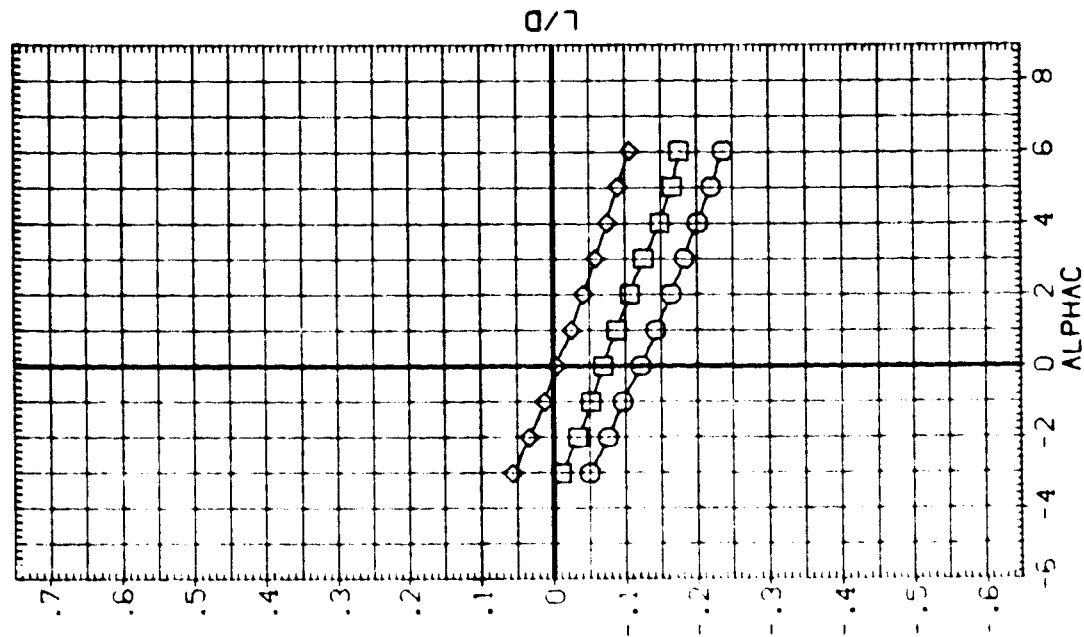


FIG. 10 MATED (ORBITER + CARRIER) AERO CHARACTERISTICS (INTERPOLATED I-ORB)

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	STAB-C	RUD-C	ELV-0	IAOR0	REFERENCE INFORMATION
(NE9048)	□	ARC14-080-1 CA23 747/1 01 AT1 (MATED)	5.000	10.000	5.000	4.000	SREF 5500.0000 SQ.FT.
(NE9027)	□	ARC14-080-1 CA23 747/1 01 AT1 (MATED)	5.000	10.000	5.000	6.000	LREF 327.7800 IN.
(NE9038)	□	ARC14-080-1 CA23 747/1 01 AT1 (MATED)	5.000	10.000	5.000	8.000	SREF 2348.0400 IN.
							XTRP 1335.9000 IN. MC
							YMRP .0000 IN. VC
							ZMRP 190.7500 IN. ZC
							SCALE .0125

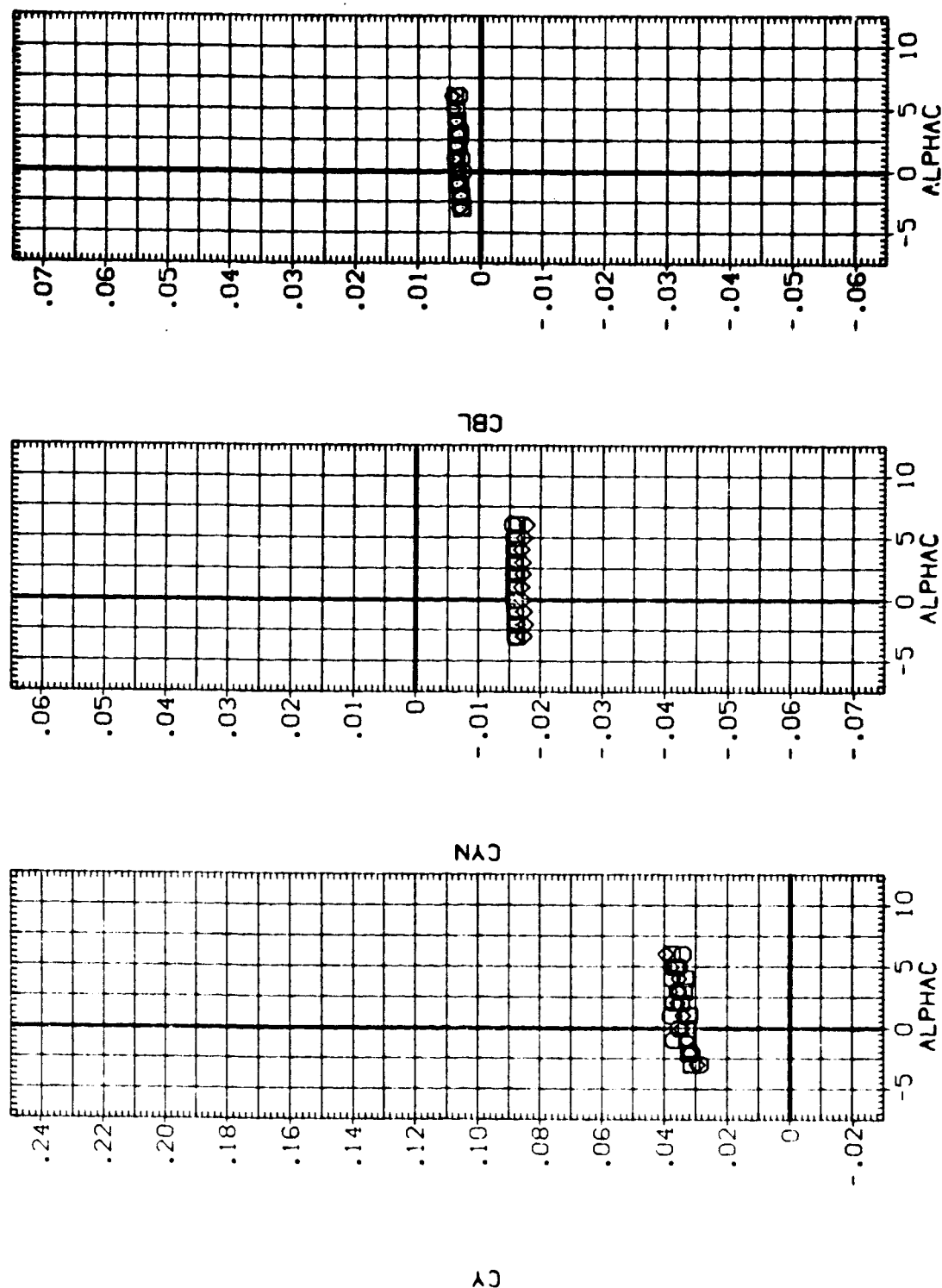


FIG. 10 MATED (ORBITER + CARRIER) AERO CHARACTERISTICS (INTERPOLATED I-ORB)
(A) MACH = .60



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	STAB-C	RUD-C	ELV-0	IAORB	REFERENCE INFORMATION
(NE9049)	ARC14-080-1 CA23 747/1 01 AT1 (MATED)	-1.000	.000	5.000	4.000	SREF 5500.0000 SO.FT.
(NE9029)	ARC14-080-1 CA23 747/1 01 AT1 (MATED)	-1.000	.000	5.000	6.000	LREF 327.7800 IN.
(NE9039)	ARC14-080-1 CA23 747/1 01 AT1 (MATED)	-1.000	.000	5.000	8.000	BREF 2348.0400 IN.
						YMRP 1339.9000 IN.
						YMRP 190.7500 IN.
						SCALE .0123

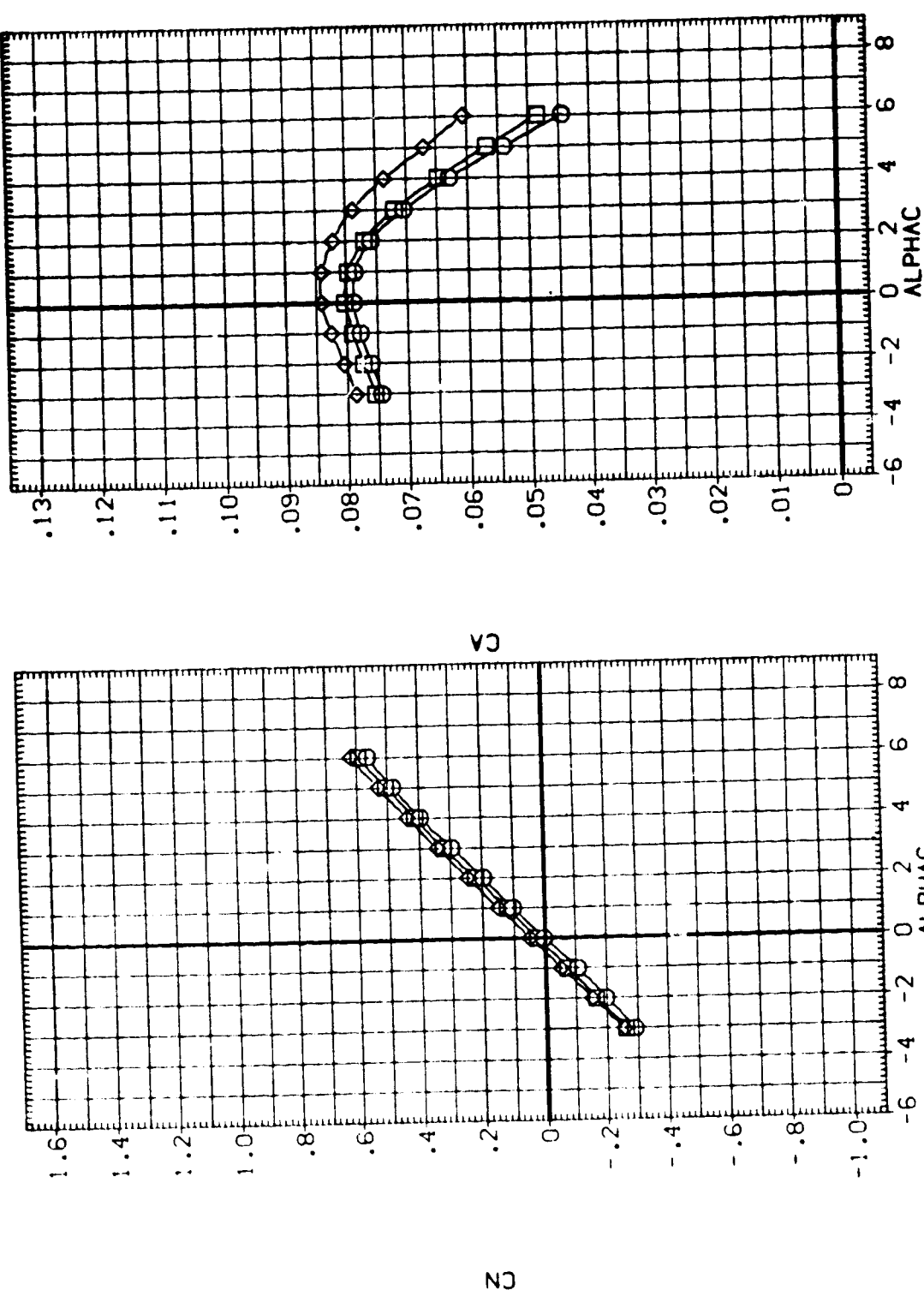


FIG. 10 MATED (ORBITER + CARRIER) AERO CHARACTERISTICS (INTERPOLATED I-ORB)
(A) MACH = .60

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR

DATA SET SYMBOL

(NE9045) ARC14-080-1 CA23 747/1 01 AT1 (MATED)
 (NE9029) ARC14-080-1 CA23 747/1 01 AT1 (MATED)
 (NE9039) ARC14-080-1 CA23 747/1 01 AT1 (MATED)

CONFIGURATION DESCRIPTION

STAB-C RUO-C ELV-B IAOB8
 -1.000 .000 5.000 4.000
 -1.000 .000 5.000 6.000
 -1.000 .000 5.000 8.000

REFERENCE INFORMATION

SREF 5500.0000 IN. FT.
 LREF 327.7800 IN.
 BREF 2348.0400 IN.
 YMRP 1335.9000 IN.
 ZMRP .0000 IN.
 ZMRP 190.7500 IN.
 SCALE .0125

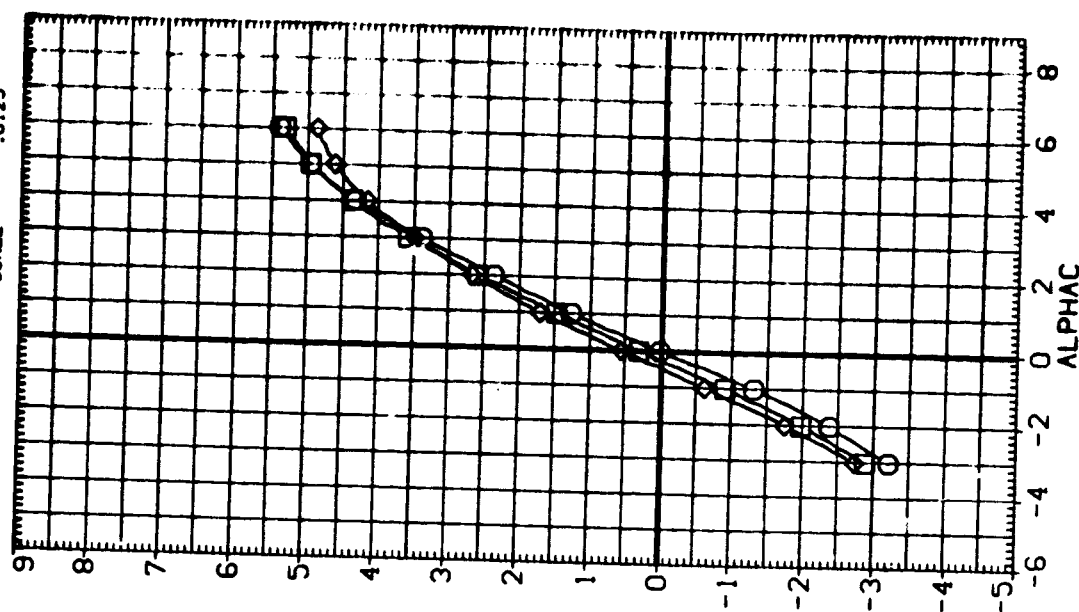
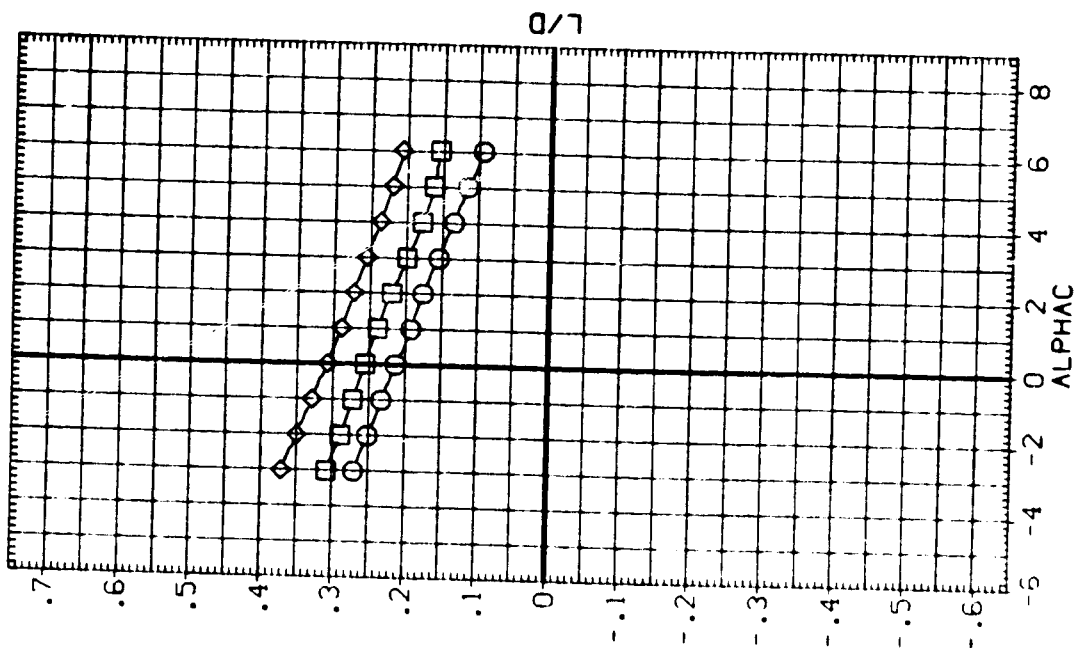


FIG. 10 MATED (ORBITER + CARRIER) AERO CHARACTERISTICS (INTERPOLATED I-OR8)

(A) MACH = .60

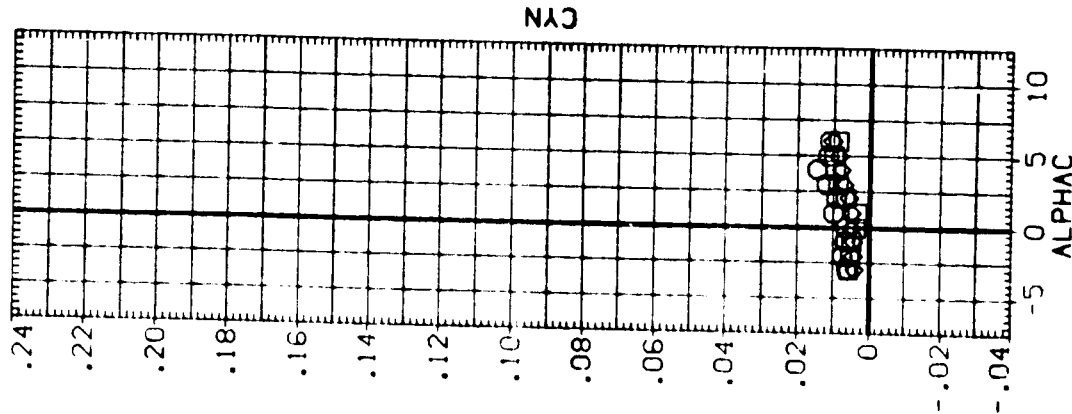


DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (NE 9049) ARC14-080-1 CA23 747/1 01 AT1 (MATED)
 (NE 9029) ARC14-080-1 CA23 747/1 01 AT1 (MATED)
 (NE 9039) ARC14-080-1 CA23 747/1 01 AT1 (MATED)

STAB-C RUD-C
 -1.000 .000
 -1.000 .000

ELV-0
 5.000
 5.000
 5.000

REFERENCE INFORMATION
 SREF 5500.0000 SQ.FT.
 LREF 327.7800 IN.
 BREF 2348.0400 IN.
 XMRP 1339.9000 IN.
 YMRP .0000 IN.
 ZMRP 190.7500 IN.
 SCALE .0125



CY

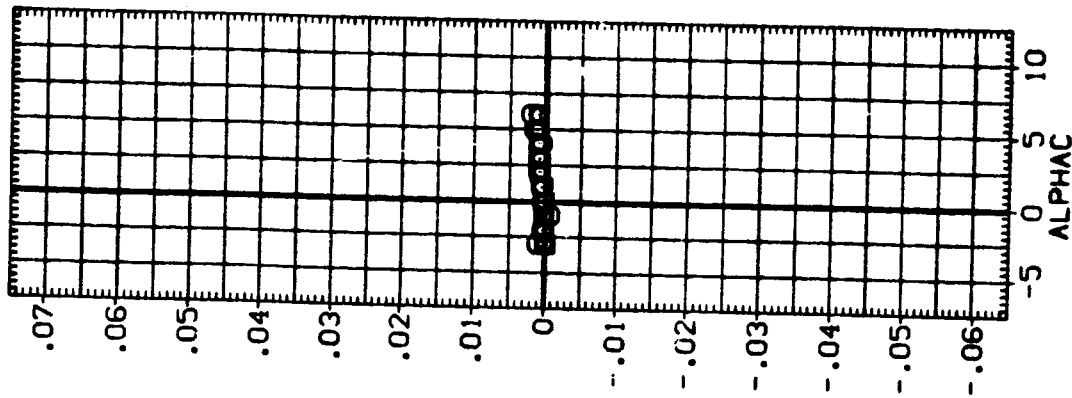
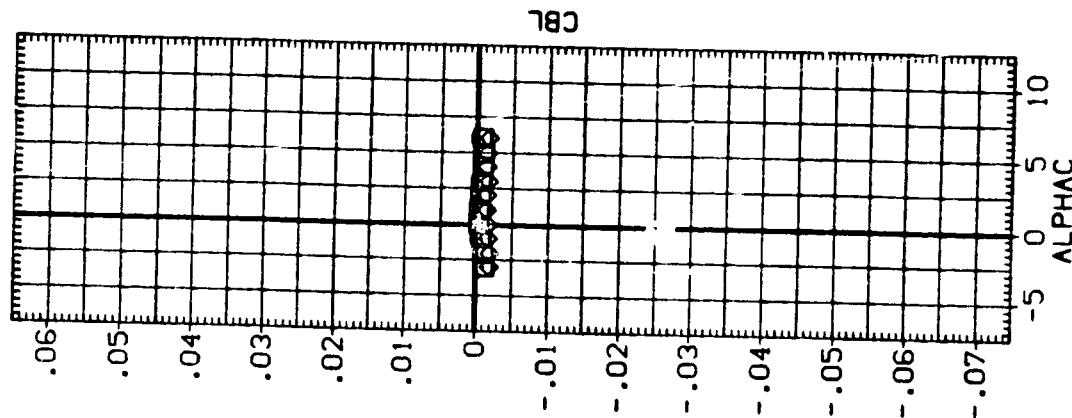


FIG. 10 MATED (ORBITER + CARRIER) AERO CHARACTERISTICS (INTERPOLATED I-OR8)
 (A) MACH = .60

DATA SET SYMBOL
(NE9049)
(NE9049)
(NE9049)

CONFIGURATION DESCRIPTION
ARC14-080-1 CA23 747/1 01 AT1 (MATED)
ARC14-080-1 CA23 747/1 01 AT1 (MATED)
ARC14-080-1 CA23 747/1 01 AT1 (MATED)

STAB-C RUD-C ELV-0 IADRB
-1.000 .000 5.000 4.000
-1.000 .000 5.000 6.000
-1.000 .000 5.000 8.000

REFERENCE INFORMATION
SREF 5500.0000 50.FT.
LREF 327.7800 IN.
BREF 2348.0400 IN.
XTRP 1339.5000 IN. XC
YTRP .0000 IN. YC
ZTRP 190.7500 IN. ZC
SCALE .0125

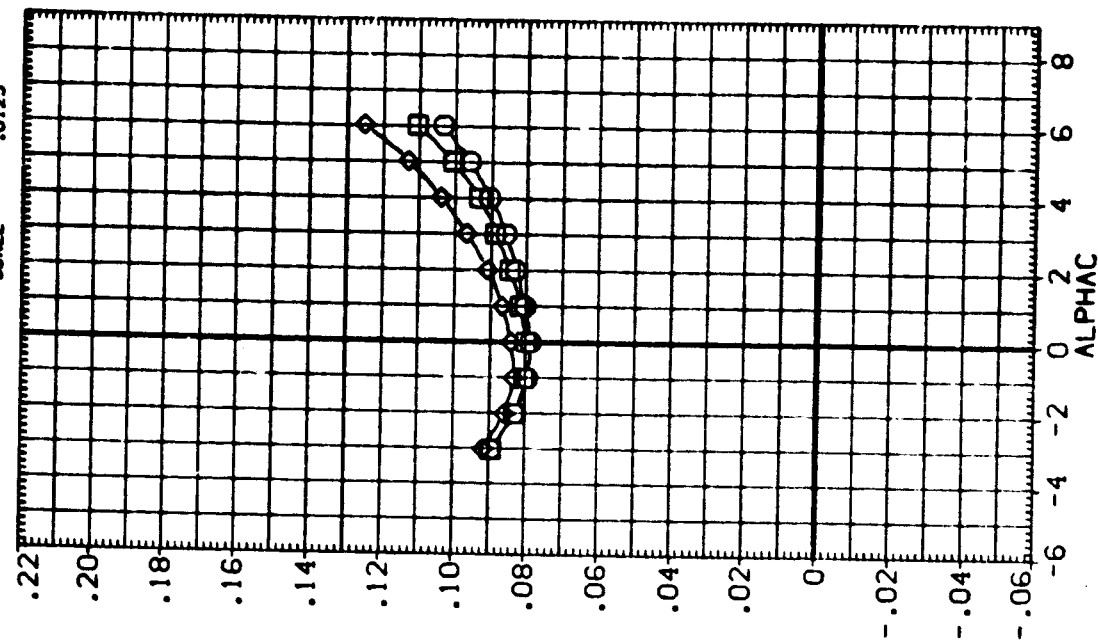
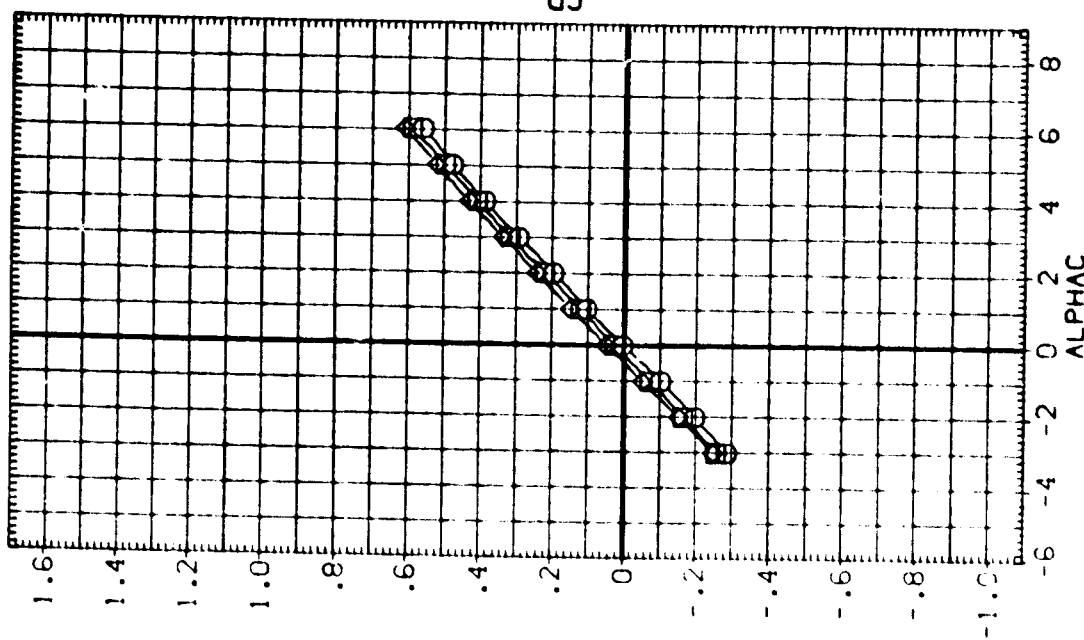


FIG. 10 MATED (ORBITER + CARRIER) AERO CHARACTERISTICS (INTERPOLATED I-ORB)

(A) $MACH = .60$



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	STAB-C	RUD-C	ELV-0	IAOR8	REFERENCE INFORMATION
(NE9050)	ARC14-080-1 CA23 747/1 01 AT1 (MATED)	-1.000	.000	10.000	4.000	SREF 5500.0000 50.FT.
(NE9030)	ARC14-080-1 CA23 747/1 01 AT1 (MATED)	-1.000	.000	10.000	6.000	LREF 327.7800 IN.
(NE9040)	ARC14-080-1 CA23 747/1 01 AT1 (MATED)	-1.000	.000	10.000	8.000	BREF 2348.0400 IN.
						YHRP 1339.9000 IN. MC
						ZHRP .0000 IN. VC
						SCALE 190.7500 IN. ZC
						.0125

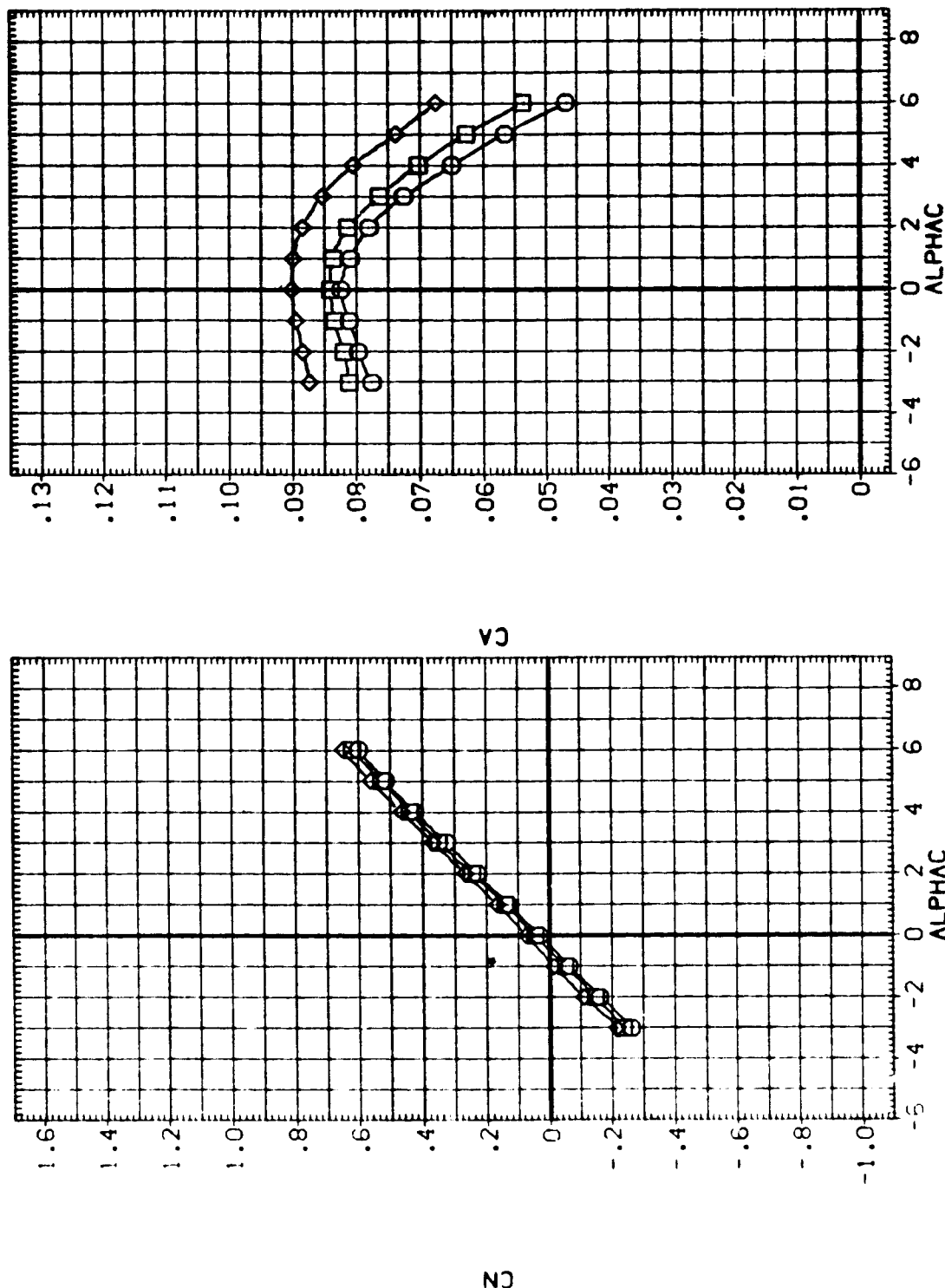


FIG. 10 MATED (ORBITER + CARRIER) AERO CHARACTERISTICS (INTERPOLATED I-OR8)

(A)MACH = .60

DATA SET SYMBOL

(NE9050) ARC14-080-1 CA23 747/1 01 AT1 (MATED)
 (NE9050) ARC14-080-1 CA23 747/1 01 AT1 (MATED)
 (NE9050) ARC14-080-1 CA23 747/1 01 AT1 (MATED)

CONFIGURATION DESCRIPTION

STAB-C

-1.000
 -1.000
 -1.000

RUD-C

.000
 .000
 .000

ELV-0

10.000
 10.000
 10.000

IACRB

4.000
 6.000
 8.000

REFERENCE INFORMATION

SREF 5500.0000 SO.FT.
 LREF 327.7800 IN.
 BRFP 2348.0400 IN.
 YMRP 1339.5000 IN.
 ZMRP 190.7500 IN.
 SCALE .0125

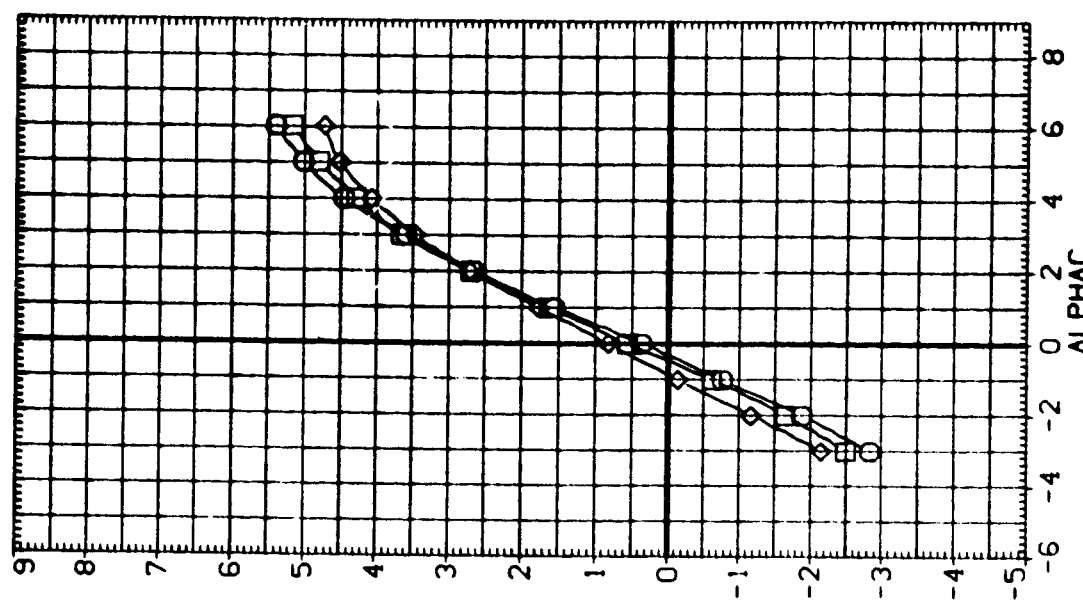
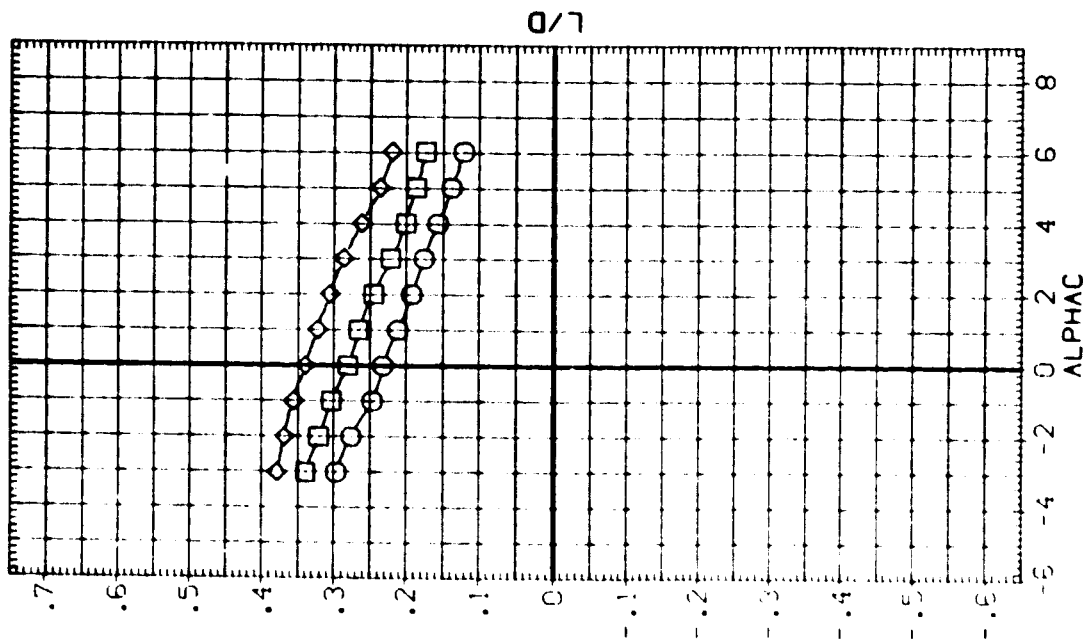


FIG. 10 MATED (ORBITER + CARRIER) AERO CHARACTERISTICS (INTERPOLATED I-ORB)

(A)MACH = .60

DATA 501 04MBZL
 (NEW 9000)
 (NEW 9000)
 (NEW 9000)

CONFIGURATION DESCRIPTION
 ARC14-080-1 CA23 747/1 01 AT1 (MATED)
 ARC14-080-1 CA23 747/1 01 AT1 (MATED)
 ARC14-080-1 CA23 747/1 01 AT1 (MATED)

STAB-C RUO-C ELV-D
 -1.000 .000 10.000
 -1.000 .000 10.000
 -1.000 .000 10.000

IAROB
 4.000
 6.000
 8.000

REFERENCE INFORMATION
 SREF 5500.0000 98 FT.
 LREF 327.7800 IN.
 BREF 2348.0400 IN.
 XREF 1339.9000 IN.
 YREF 190.7500 IN.
 ZREF 190.7500 IN.
 SCALE .0125

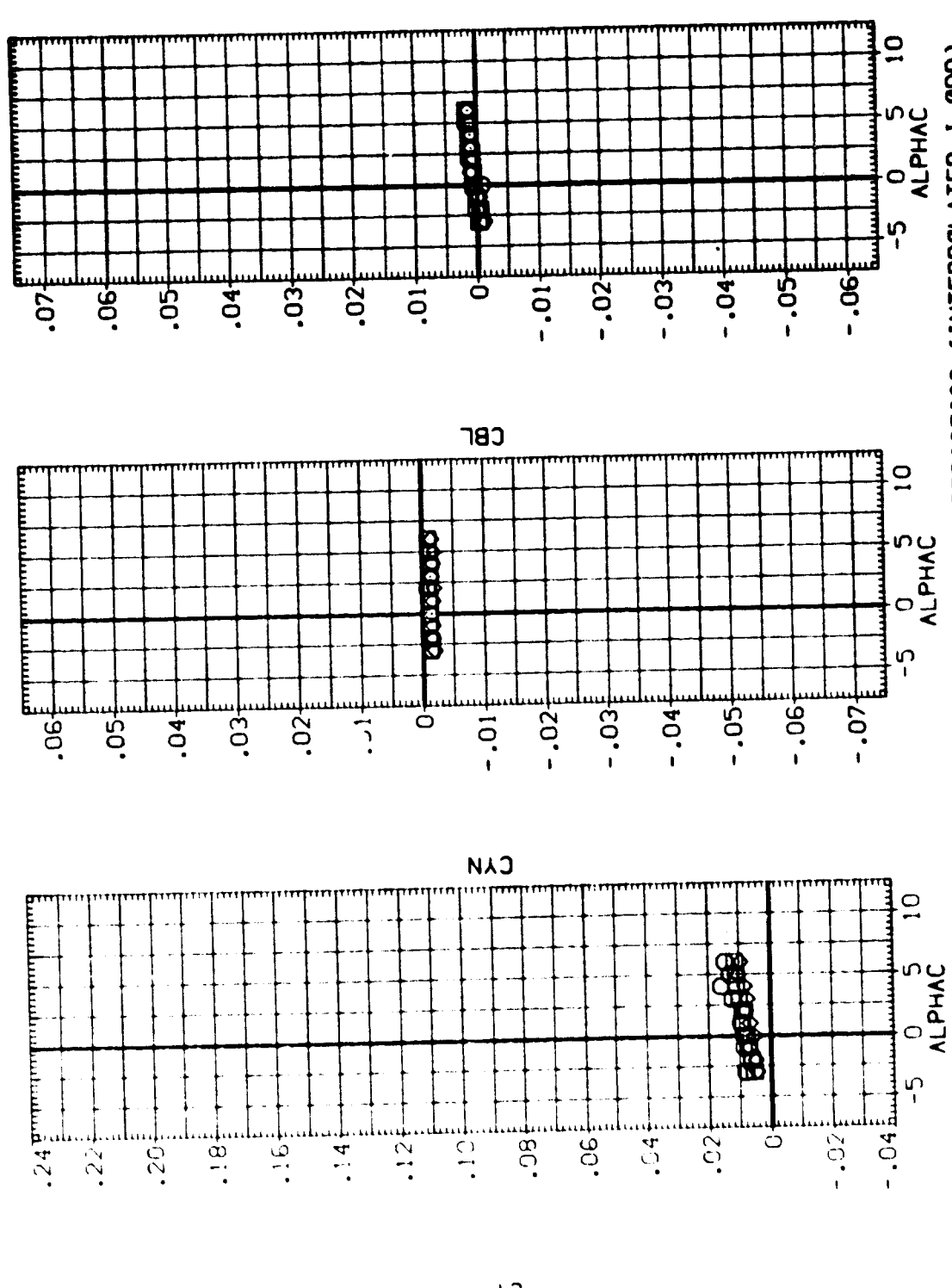
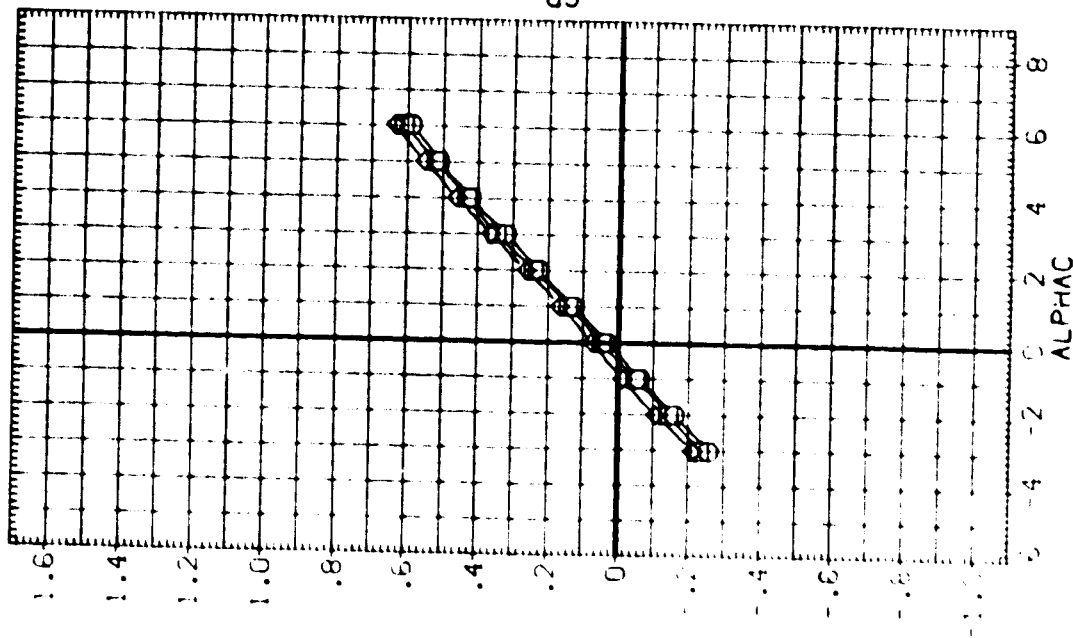


FIG. 10 MATED (ORBITER + CARRIER) AERO CHARACTERISTICS (INTERPOLATED I-ORR)
 (MACH = .60) PAGE 247

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 ARC:14-080-1 CA23 747/1 01 AT1 (MATED)
 ARC:14-080-2 CA23 747/1 01 AT1 (MATED)
 ARC:14-080-3 CA23 747/1 01 AT1 (MATED)



STAB-C RUO-C ELV-0 IADRG
 -1.000 .000 10.000 4.000
 -1.000 .000 10.000 6.000
 -1.000 .000 10.000 8.000

REFERENCE INFORMATION
 SREF 5500.0000 50. FT.
 LREF 327.7800 IN.
 BREF 2346.0400 IN.
 XMRP 1339.5000 IN.
 YMRP .0000 IN.
 ZMRP 190.7500 IN.
 SCALE .0125

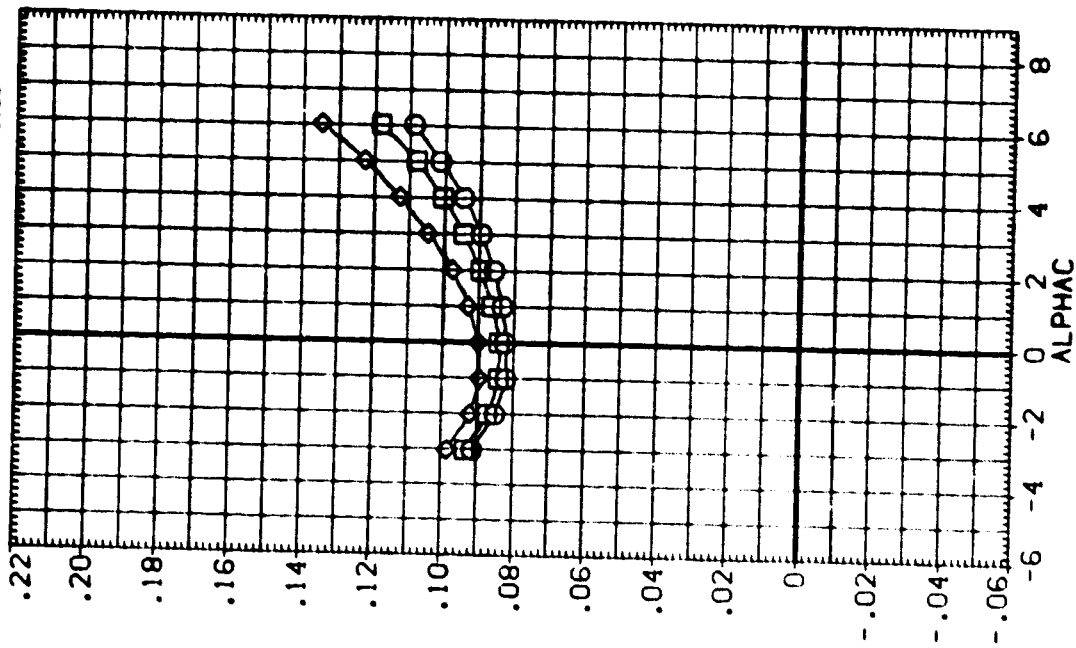


FIG. 10 MATED (ORBITER + CARRIER) AERO CHARACTERISTICS (INTERPOLATED I-ORB)

(A) MACH = .60

DATA SET SYMBOL: CONF. LOCATION DESCRIPTION
 (NE 3 51) 1 ARC 14-080-1 CA23 747/1 01 AT1 (MATED)
 (NE 3 51) 2 ARC 14-080-1 CA23 747/1 01 AT1 (MATED)
 (NE 3 51) 3 ARC 14-080-1 CA23 747/1 01 AT1 (MATED)

STAB-C RUJ-C ELV-0 IADRB
 5.000 .000 10.000 4.000
 5.000 .000 10.000 6.000
 5.000 .000 10.000 8.000

REFERENCE INFORMATION SQ.FT.
 SREF 5500.0000 IN.
 LREF 377.7800 IN.
 BREF 2348.0400 IN.
 XMRP 1339.8000 IN. MC
 YMRP .0000 IN. VC
 ZMRP 190.7500 IN. ZC
 SCALE .0125

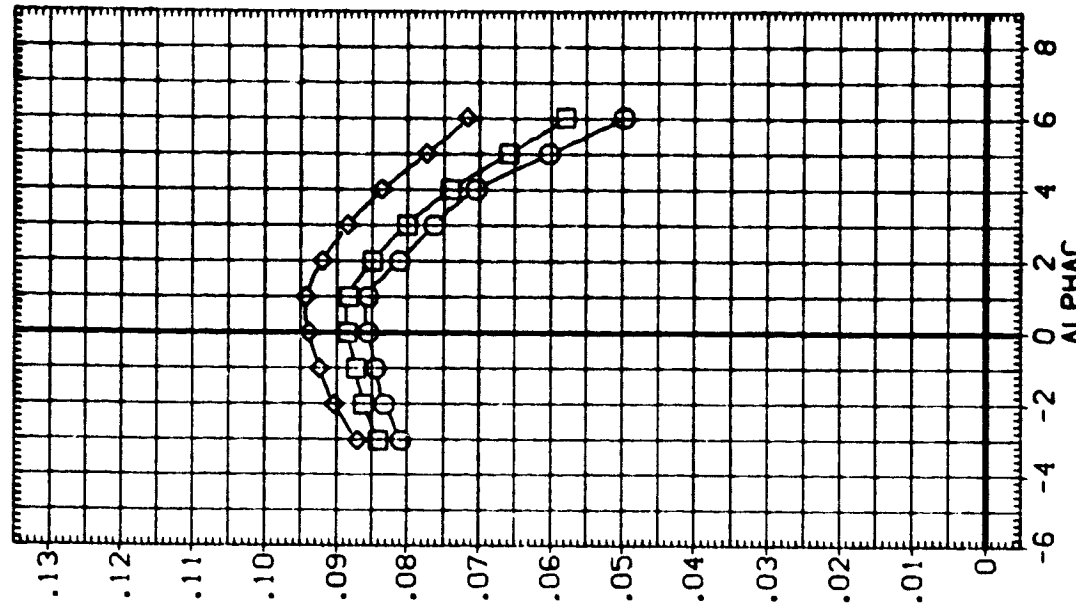
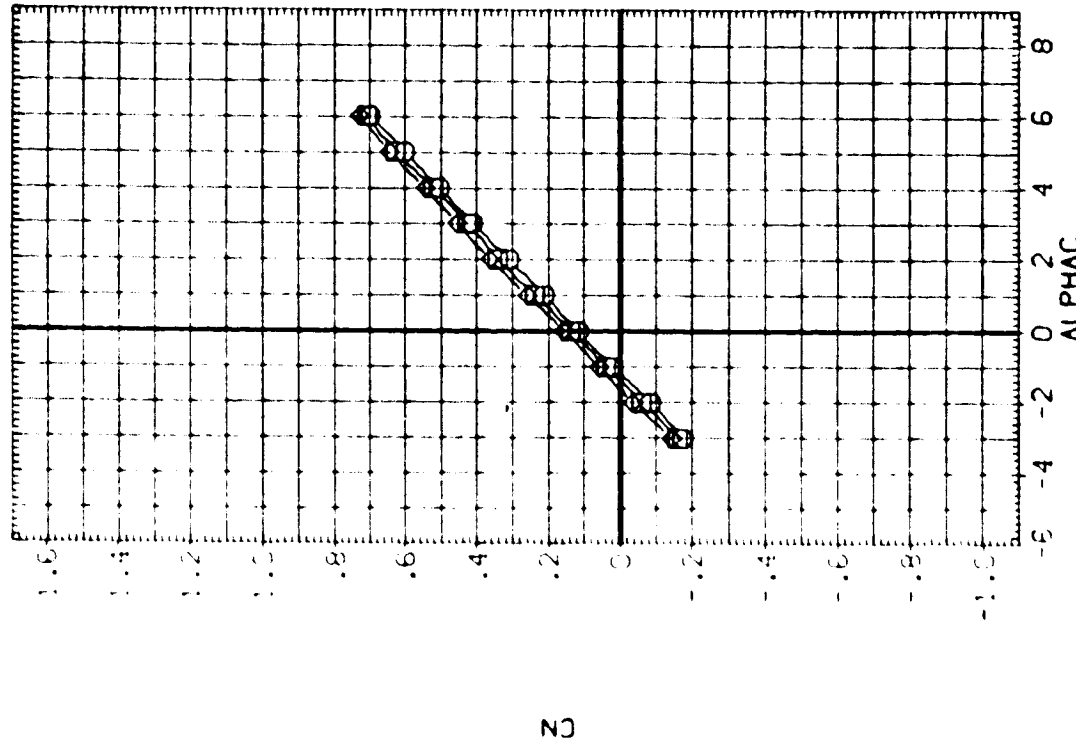


FIG. 10 MATED (ORBITER + CARRIER) AERO CHARACTERISTICS (INTERPOLATED I-OR8)
 (A) MACH = .60

DATA SET SYMBOL: ☒ (MATED) ☒ (MATED) ☒ (MATED)

CONFIGURATION DESCRIPTION: ARC14-080-1 CA23 747/1 01 AT1 (MATED)

STAB-C 5.000 ELV-0 10.000 RUO-C .000 IADRB 4.000

REFERENCE INFORMATION: SREF 5500.8000 59.57. IN. LREF 327.7600 IN. BREF 2348.0400 IN. MC XMRP 1339.8000 IN. VC ZMRP .0000 IN. PC SCALE 190.7500 IN. PC

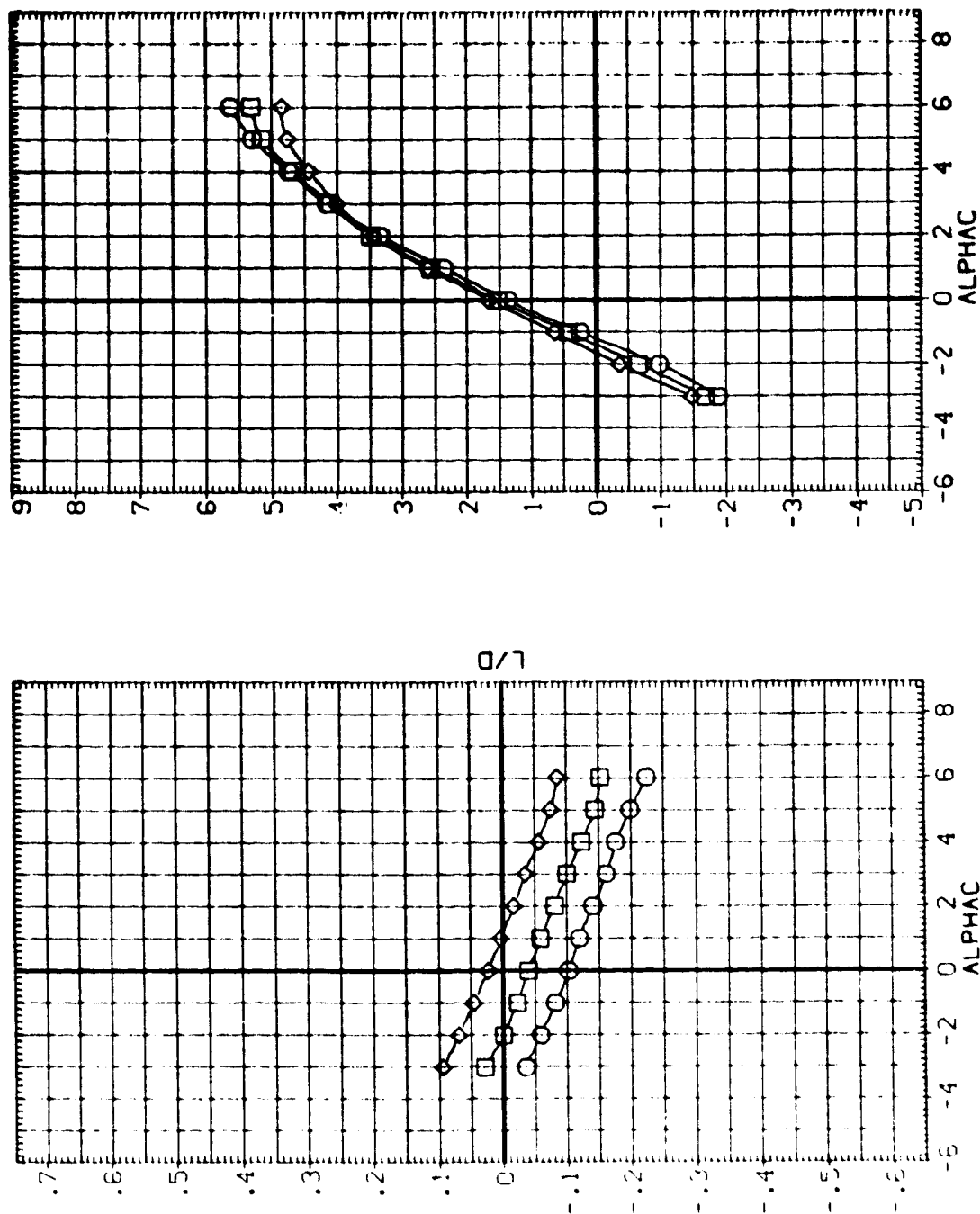


FIG. 10 MATED (ORBITER + CARRIER) AERO CHARACTERISTICS (INTERPOLATED I-ORB)

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	STAB-C	RUD-C	ELV-0	I-ORB	REFERENCE INFORMATION
(NEGAT)	ARC14-080-1 CA23 747/1 01 AT1 (MATED)	5.000	.000	10.000	4.000	SREF 5500.0000 SQ.FT.
(NEGAT)	ARC14-080-1 CA23 747/1 01 AT1 (MATED)	5.000	.000	10.000	6.000	LREF 327.7800 IN.
(NEGAT)	ARC14-080-1 CA23 747/1 01 AT1 (MATED)	5.000	.000	10.000	8.000	BREF 2348.0400 IN.
						XWRP 1339.9000 IN. WC
						VWRP .0000 IN. VC
						ZWRP 190.7500 IN. ZC
						SCALE .0125

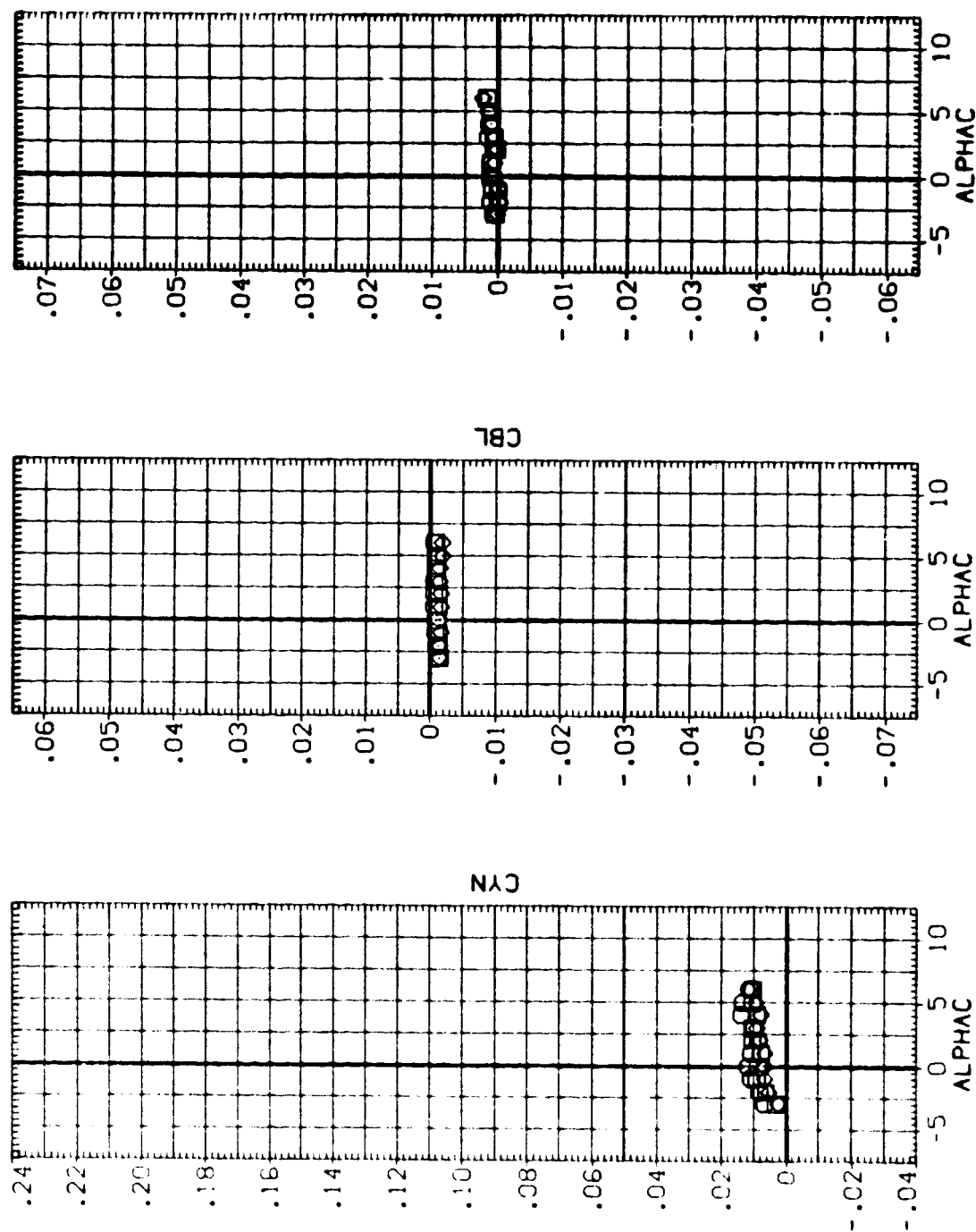


FIG. 10 MATED (ORBITER + CARRIER) AERO CHARACTERISTICS (INTERPOLATED I-ORB)

(A) MACH = .60

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ORIGINAL PAGE IS ~~POOR~~

DATA SET SYMBOL CONFIGURATION DESCRIPTION

ARC14-080-1 CA23 747/1 01 AT1 (MATED)
 ARC14-080-1 CA23 747/1 01 AT1 (MATED)
 ARC14-080-1 CA23 747/1 01 AT1 (MATED)

STAB-C RUO-C ELV-O IAOB8
 5.000 .000 10.000 4.000
 5.000 .000 10.000 6.000
 5.000 .000 10.000 8.000

REFERENCE INFORMATION
 SREF 5500.0000 SO.FT.
 LREF 327.7800 IN.
 BREF 2248.0400 IN.
 XMRP 1339.9000 IN.
 YMRP .0000 IN.
 ZMRP 190.7500 IN.
 SCALE .0125

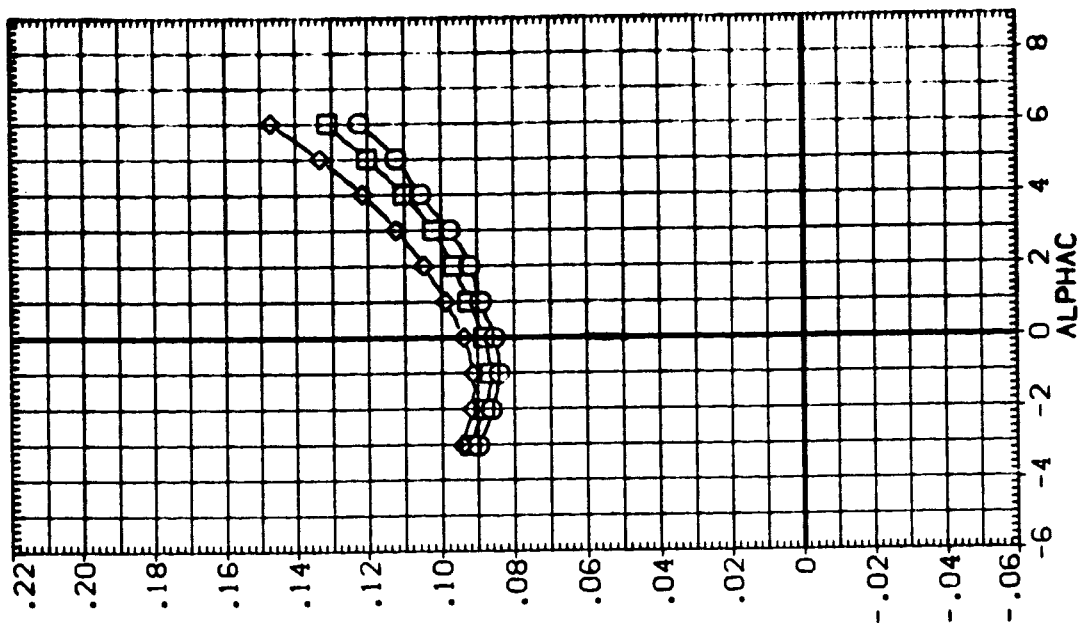
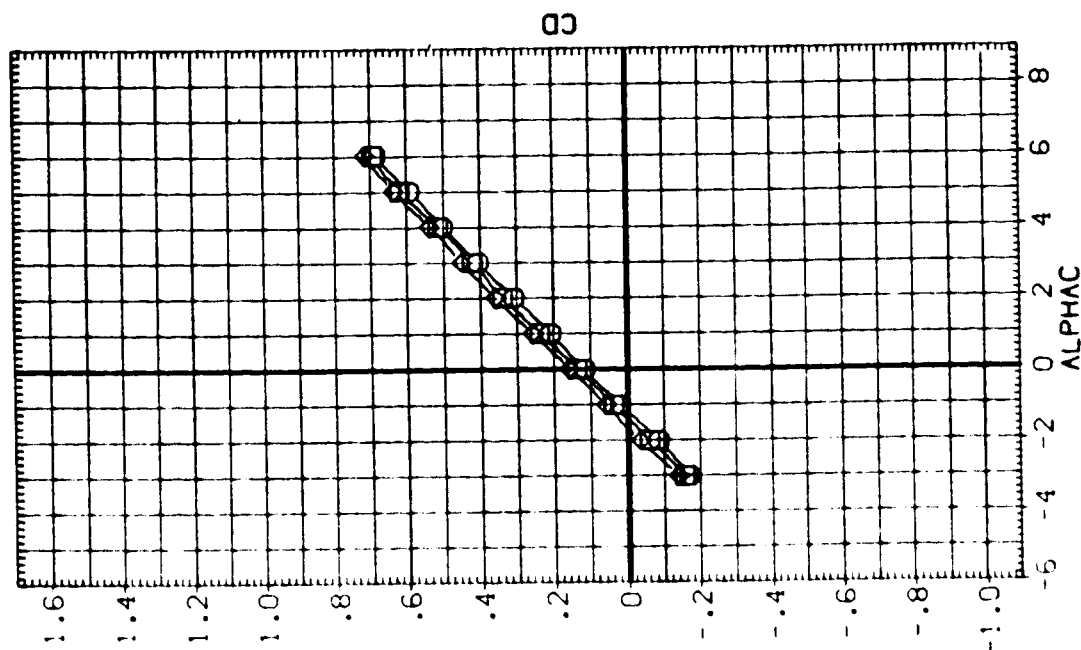


FIG. 10 MATED (ORBITER + CARRIER) AERO CHARACTERISTICS (INTERPOLATED I-ORB)

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	STAB-C	RUD-C	ELV-O	IAORB	REFERENCE INFORMATION
(P) 914B)	ARC14-080-1 CA23 747/1 01 AT1 (MATED)	5.000	.000	.000	4.000	SREF 5500.0000 SO.FT.
(N) 914B)	ARC14-080-1 CA23 747/1 01 AT1 (MATED)	5.000	.000	.000	6.000	LREF 327.7800 IN.
(N) 914B)	ARC14-080-1 CA23 747/1 01 AT1 (MATED)	5.000	.000	.000	8.000	BREF 2348.0400 IN.
						YMRP 1339.5000 IN. MC
						ZMRP .0000 IN. VC
						SCALE 190.7500 IN. ZC

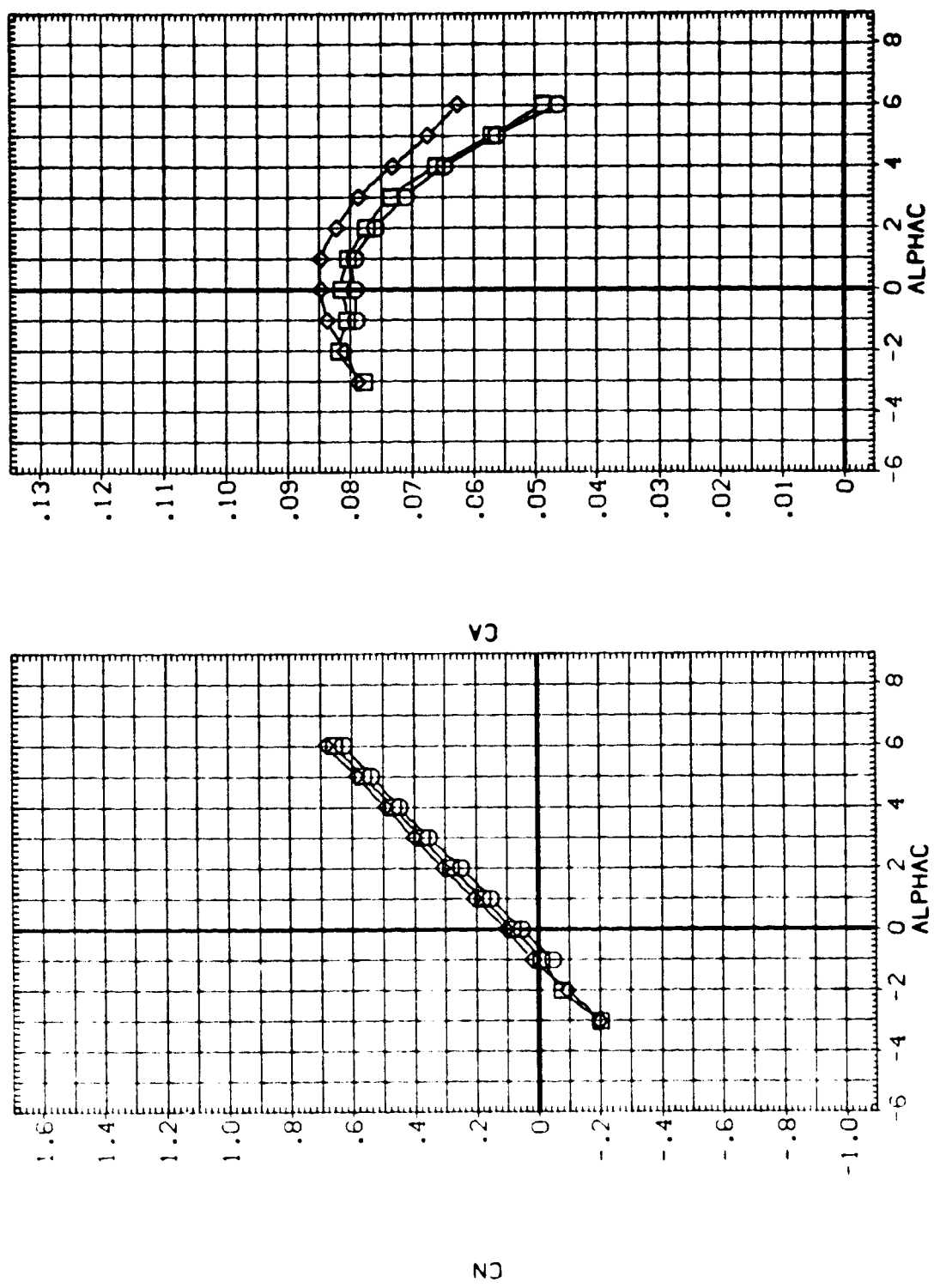


FIG. 10 MATED (ORBITER + CARRIER) AERO CHARACTERISTICS (INTERPOLATED I-OR8)

(A) MACH = .60

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DATA SET SYMBOL
 (PES046)
 (NE9072)
 (NE9043)

CONFIGURATION DESCRIPTION

ARC14-060-1 CA23 747/1 01 AT1 (MATED)
 ARC14-060-1 CA23 747/1 01 AT1 (MATED)
 ARC14-060-1 CA23 747/1 01 AT1 (MATED)

STAB-C
 5.000
 5.000
 5.000

RUD-C
 .000
 .000
 .000

ELV-0
 .000
 .000
 .000

REFERENCE INFORMATION
 SREF 5500.0000 SQ.FT.
 LREF 327.7800 IN.
 BREF 2348.0400 IN.
 YMRP 1339.9000 IN.
 ZMRP 190.7500 IN.
 SCALE .0125

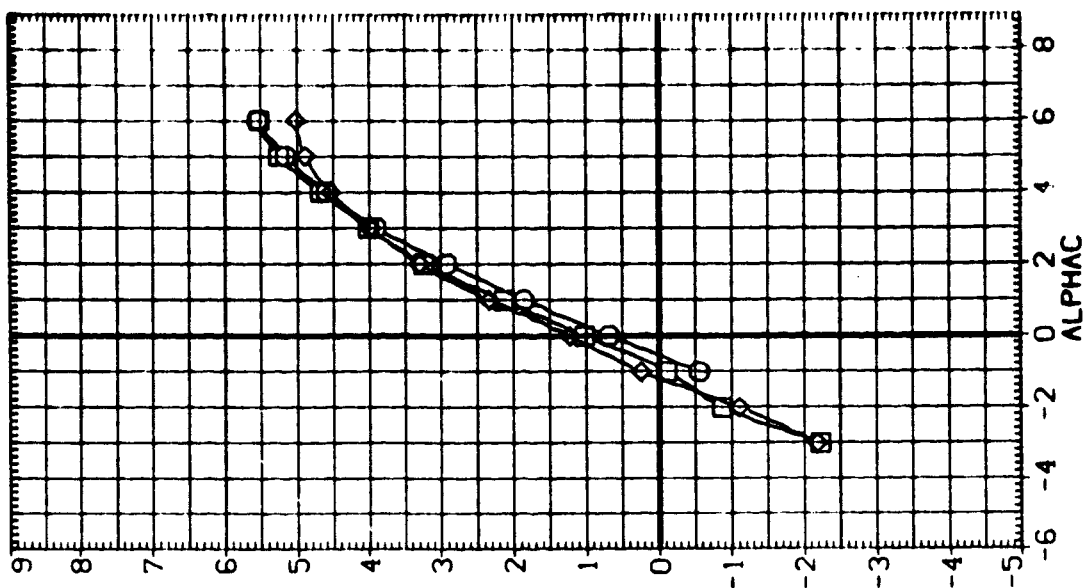
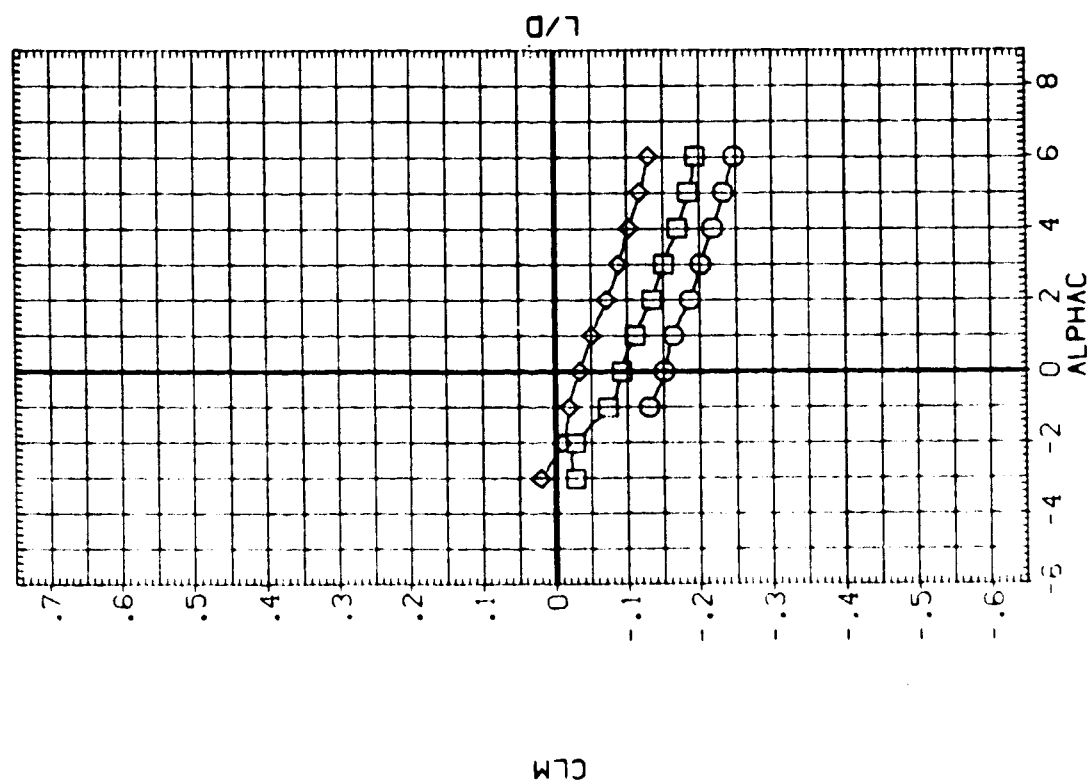


FIG. 10 MATED (ORBITER + CARRIER) AERO CHARACTERISTICS (INTERPOLATED I-ORB)

(A) MACH = .60



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	STAB-C	RUD-C	ELV-0	IAOR8	REFERENCE INFORMATION
(AE9546)	ARC14-080-1 CA23 747/1 01 AT1 (MATED)	5.000	.000	.000	4.000	SREF 5500.0000 SQ.FT.
(AE9532)	ARC14-080-1 CA23 747/1 01 AT1 (MATED)	5.000	.000	.000	6.000	LREF 327.7800 IN.
(AE9543)	ARC14-080-1 CA23 747/1 01 AT1 (MATED)	5.000	.000	.000	8.000	BREF 2348.0400 IN.
						XMRP 1339.5000 IN. MC
						YMRP .0000 IN. VC
						ZMRP 190.7500 IN. ZC
						SCALE .0125

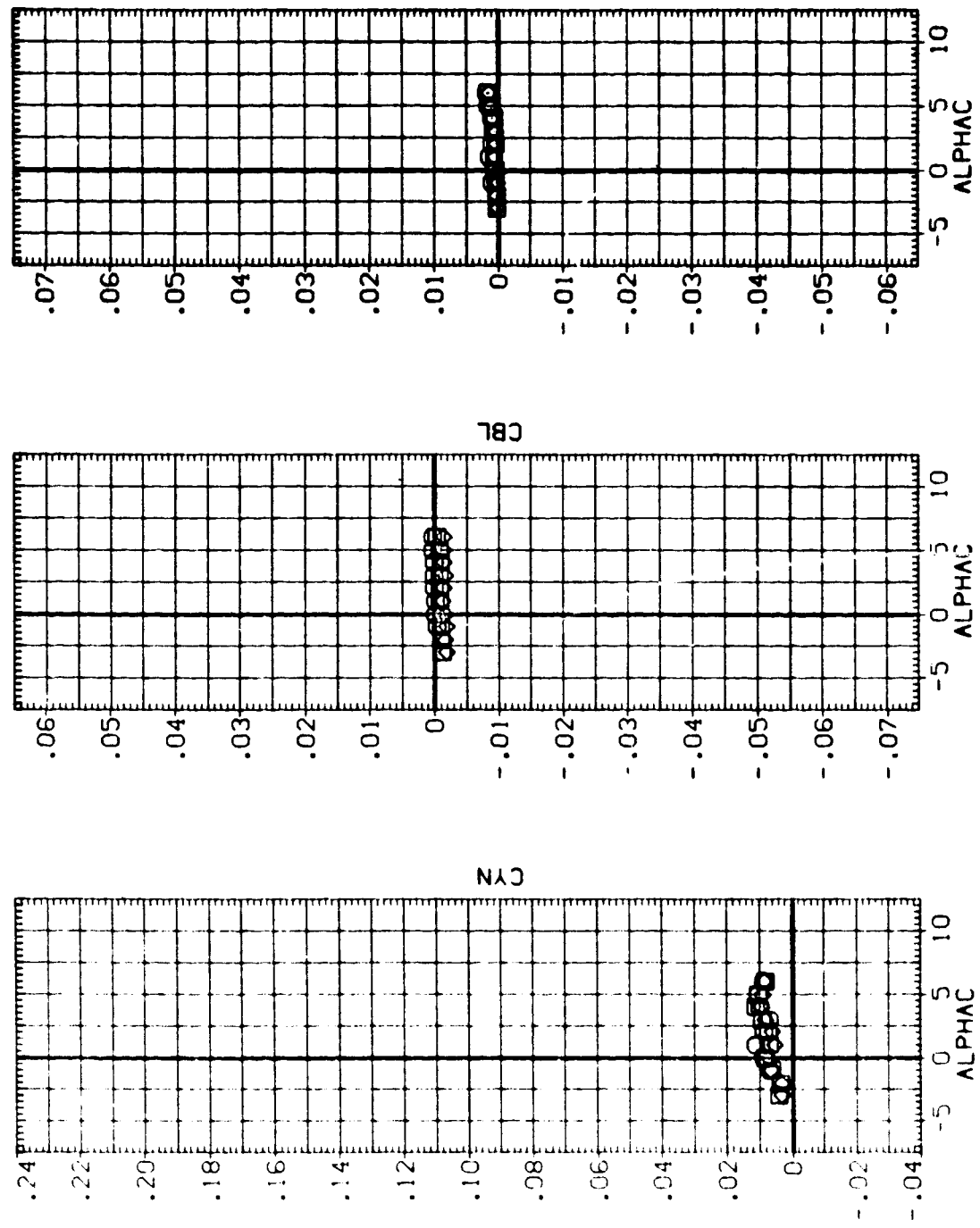


FIG. 10 MATED (ORBITER + CARRIER) AERO CHARACTERISTICS (INTERPOLATED I-OR8)

(A)MAC = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	STAB-C	RUD-C	ELV-0	IAOR8	REFERENCE INFORMATION
(P00049)	ARC14-080-1 CA23 747/1 01 AT1 (MATED)	5.000	.000	.000	4.000	SREF 5500.0000 SQ.FT.
(N00049)	ARC14-080-1 CA23 747/1 01 AT1 (MATED)	5.000	.000	.000	6.000	LREF 327.7800 IN.
(N00049)	ARC14-080-1 CA23 747/1 01 AT1 (MATED)	5.000	.000	.000	8.000	BREF 2348.0400 IN.
						YMRP 1339.8000 IN.
						YMRP .0000 IN.
						ZMRP 190.7500 IN.
						SCALE .0125

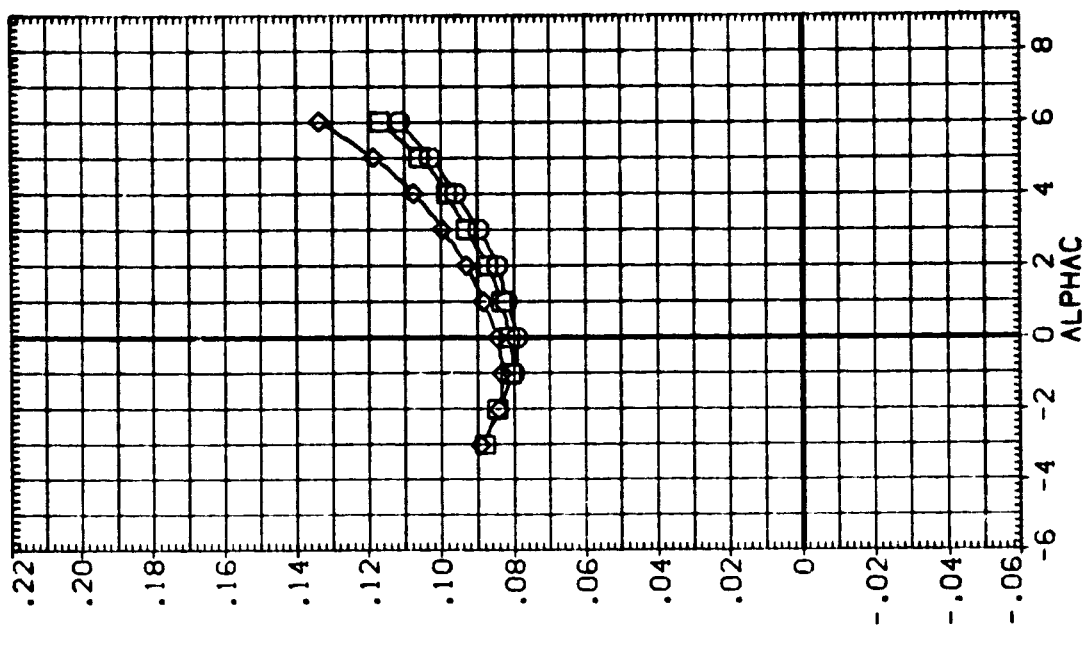
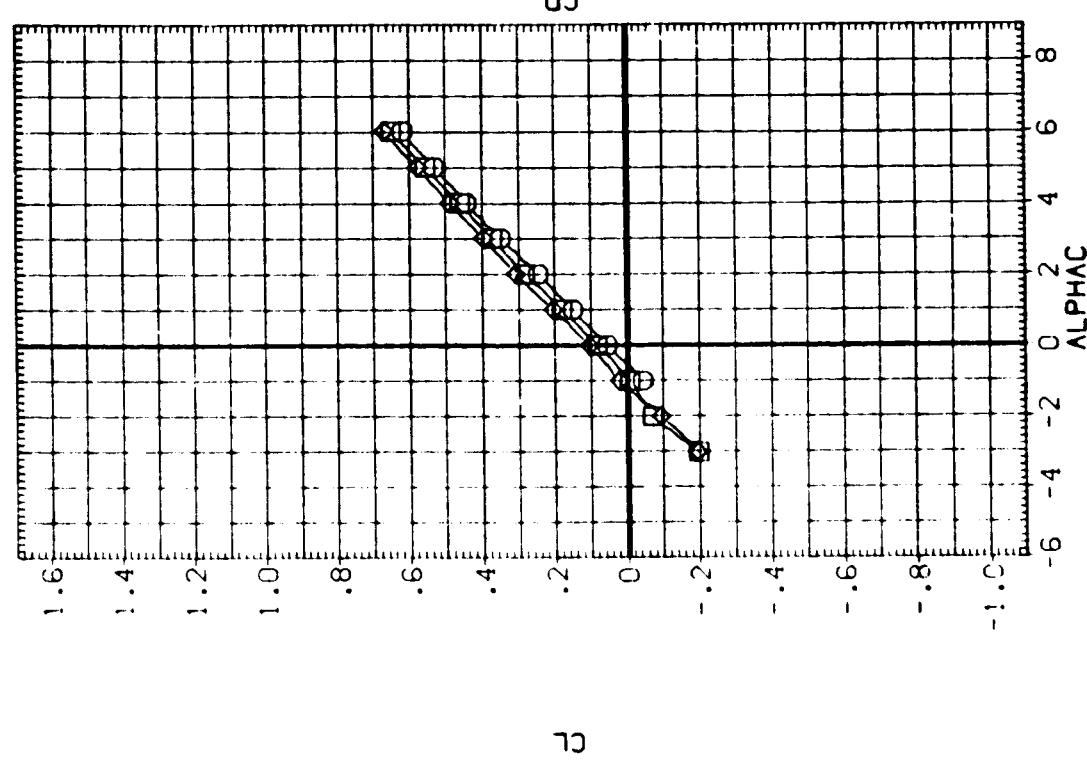


FIG. 10 MATED (ORBITER + CARRIER) AERO CHARACTERISTICS (INTERPOLATED I-ORB)

(A) MACH = .80

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	STAB-C	RUD-C	ELV-0	IADRB	REFERENCE INFORMATION
(NE5045)	ARC14-080-1 CA23 747/1 01 AT1 (MATED)	-1.000	.000	.000	4.000	SREF 5500.0000 SQ.FT.
(NE5046)	ARC14-080-1 CA23 747/1 01 AT1 (MATED)	-1.000	.000	.000	6.000	LREF 327.7800 IN.
(NE5047)	ARC14-080-1 CA23 747/1 01 AT1 (MATED)	-1.000	.000	.000	8.000	BREF 2348.0400 IN.
						XMRP 1339.9000 IN. XC
						YMRP .0000 IN. YC
						ZMRP 190.7500 IN. ZC
						SCALE .0125

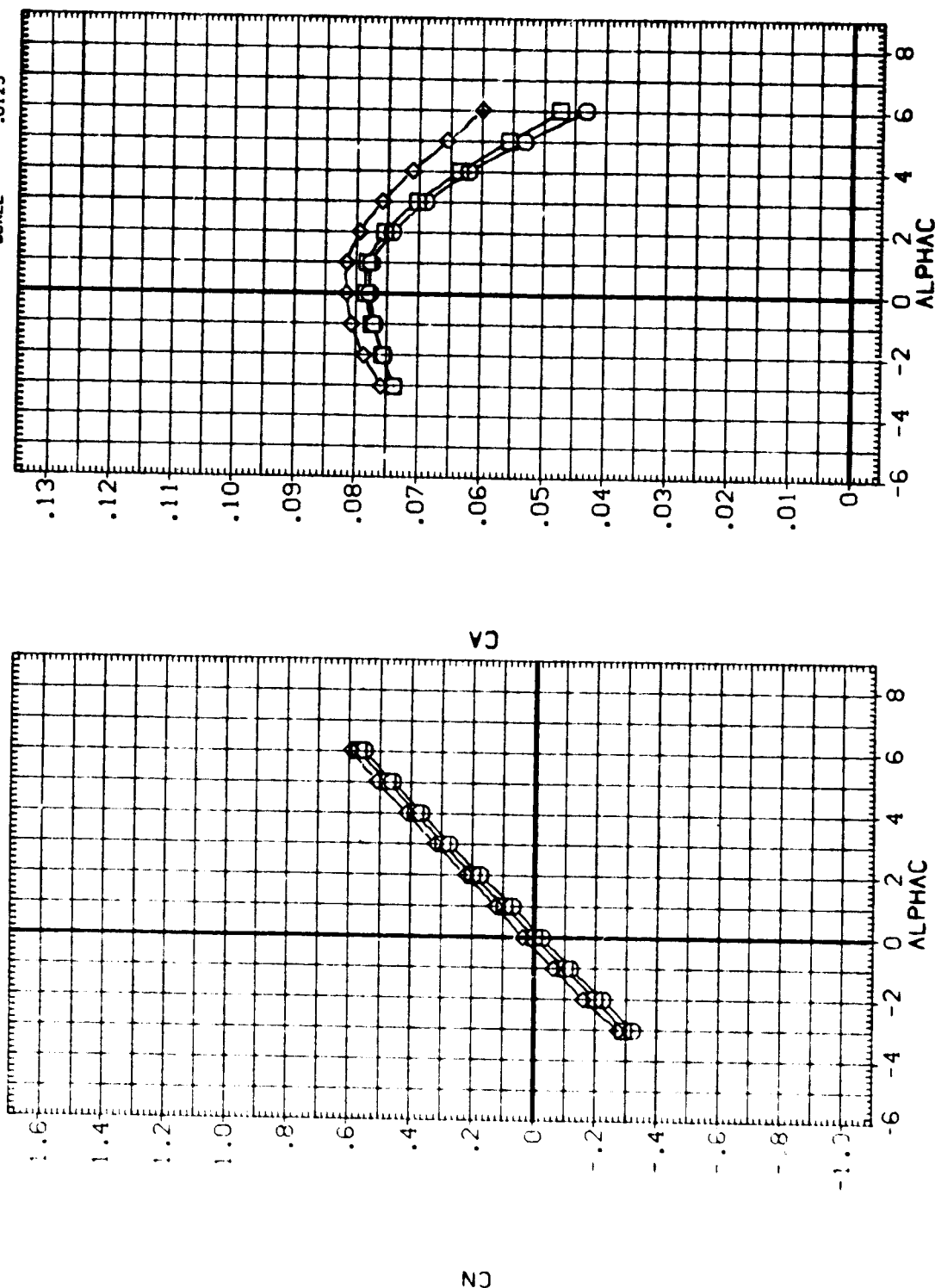


FIG. 10 MATED (ORBITER + CARRIER) AERO CHARACTERISTICS (INTERPOLATED I-ORB)

(A)MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(NE945) ARC14-080-1 CA23 747/1 01 AT1 (MATED)

(NE924) ARC14-080-1 CA23 747/1 01 AT1 (MATED)

(NE924) ARC14-080-1 CA23 747/1 01 AT1 (MATED)

STAB-C RUO-C ELV-0 IAOR8

-1.000 .000 .000 4.000

-1.000 .000 .000 6.000

-1.000 .000 .000 8.000

REFERENCE INFORMATION

SREF 5500.0000 50.00

LREF 327.7800 IN.

BREF 2348.0400 IN.

XMRP 1339.9000 IN.

YMRP 190.7500 IN.

ZMRP 190.7500 IN.

SCALE .0125

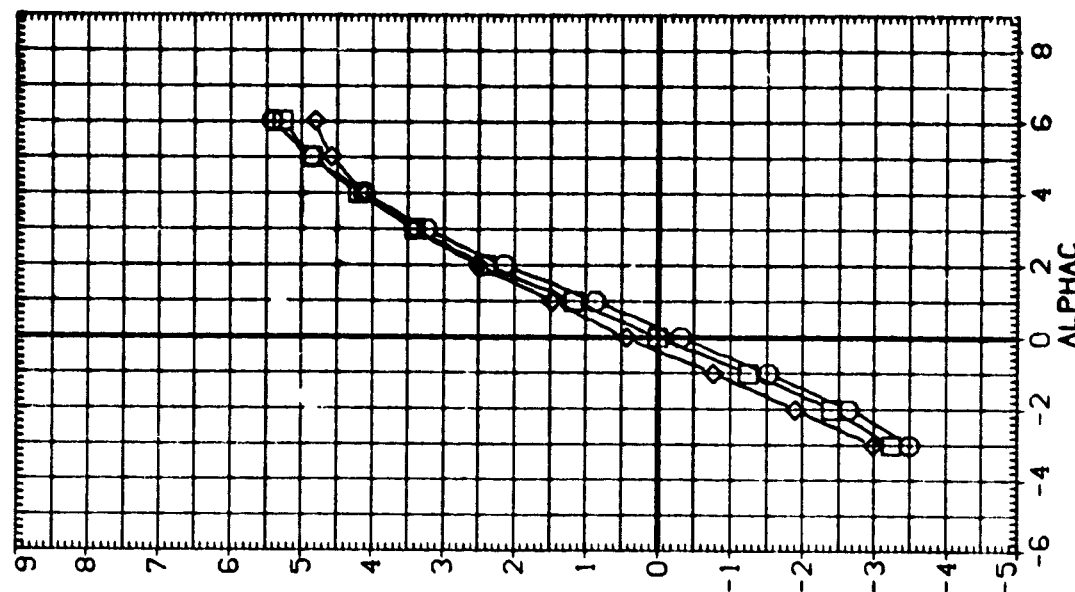
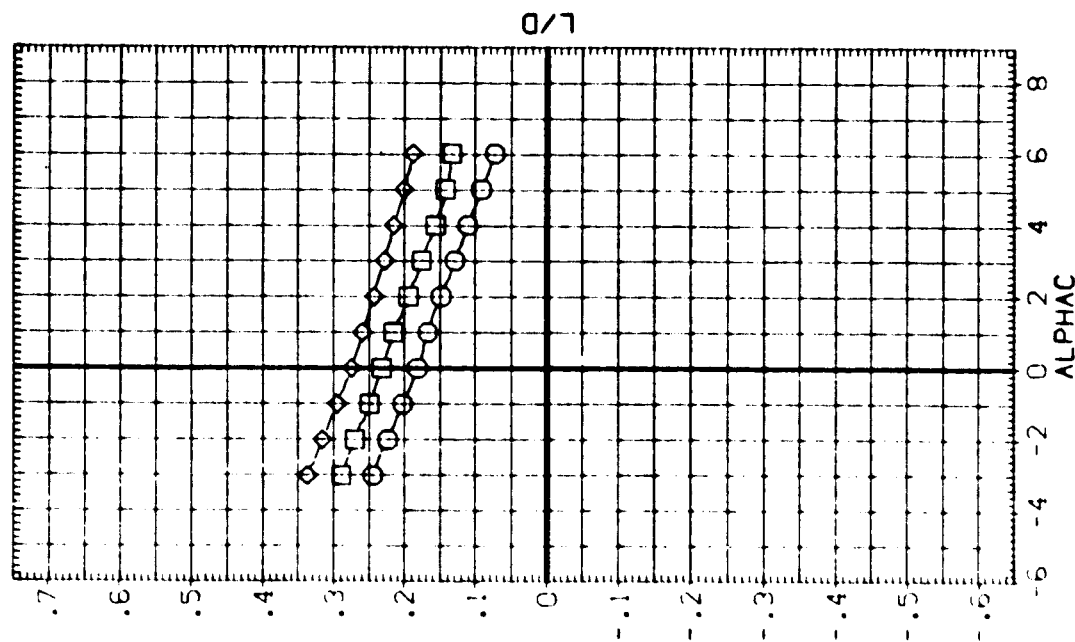


FIG. 10 MATED (ORBITER + CARRIER) AERO CHARACTERISTICS (INTERPOLATED I-ORB)

(A)MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION REFERENCE INFORMATION

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	STAB-C	RUD-C	ELV-0	I-OR8	SREF	50.FT.
AR214-880-1	CA23 747/1 01 AT1 (MATED)	-1.000	.000	.000	4.000	5500.0000	IN.
AR214-880-1	CA23 747/1 01 AT1 (MATED)	-1.000	.000	.000	5.000	377.7800	IN.
AR214-880-1	CA23 747/1 01 AT1 (MATED)	-1.000	.000	.000	8.000	2348.0400	IN.
AR214-880-1	CA23 747/1 01 AT1 (MATED)	-1.000	.000	.000		1339.5000	IN.
						YMRP .0000	IN.
						ZMRP 190.7500	IN.
						SCALE .0125	IN.

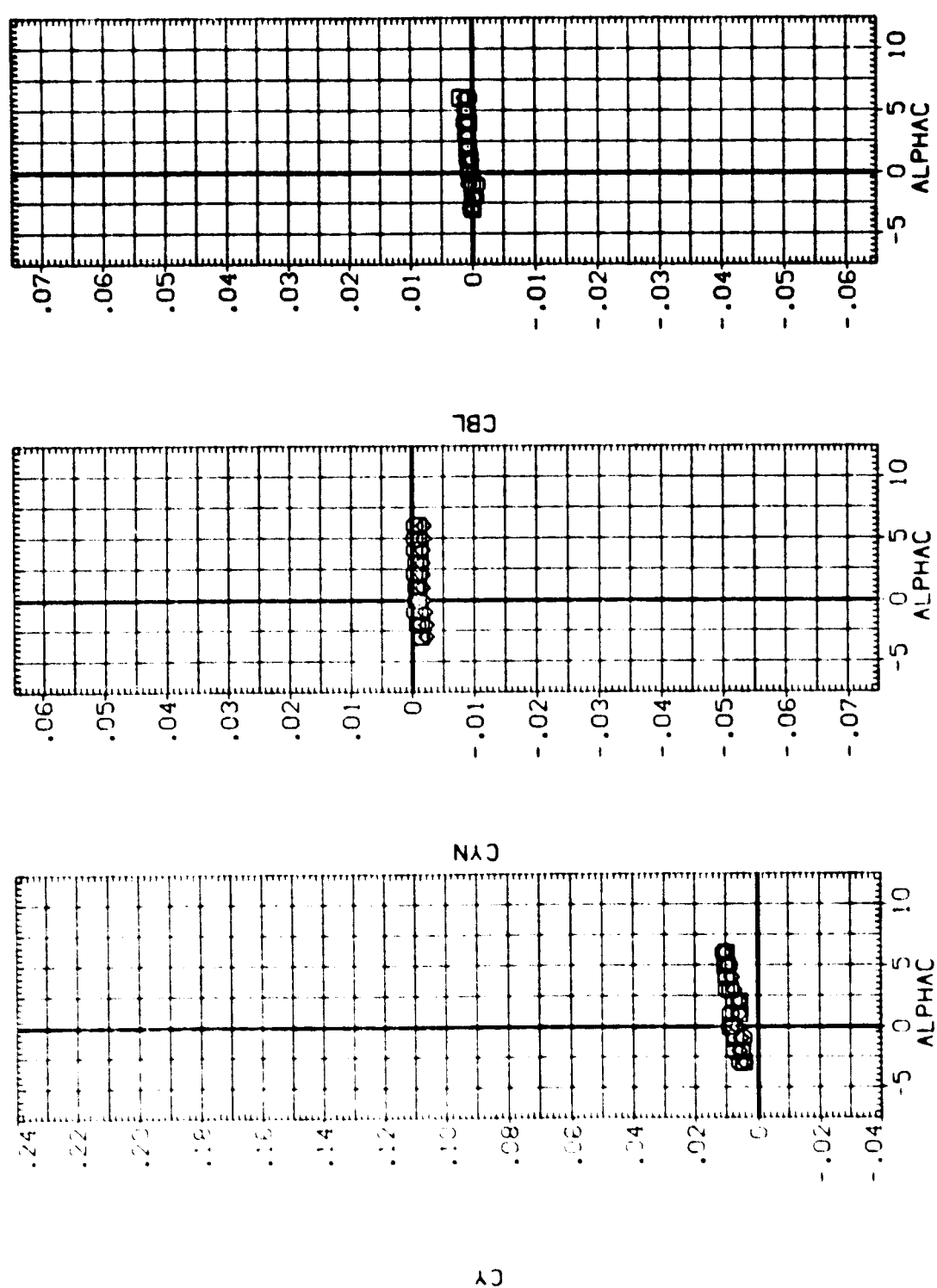


FIG. 10 MATED (ORBITER + CARRIER) AERO CHARACTERISTICS (INTERPOLATED I-OR8)

(AL) MACH = .60

DATA SET: SIMB3
 NAME: 145
 (NE 32.44)

CONFIGURATION DESCRIPTION
 ARC14-080-1 CA23 747/1 01 AT1 (MATED)
 ARC14-080-1 CA23 747/1 01 AT1 (MATED)
 ARC14-080-1 CA23 747/1 01 AT1 (MATED)

STAB-C RUO-C ELV-B IAOBB
 -1.000 .000 .000 4.000
 -1.000 .000 .000 6.000
 -1.000 .000 .000 8.000

REFERENCE INFORMATION
 SREF 5500.0000 SO.FT.
 LREF 327.7800 IN.
 BREF 2348.0400 IN.
 XMRP 1335.9000 IN. MC
 YMRP .0000 IN. VC
 ZMRP 190.7500 IN. ZC
 SCALE .0125

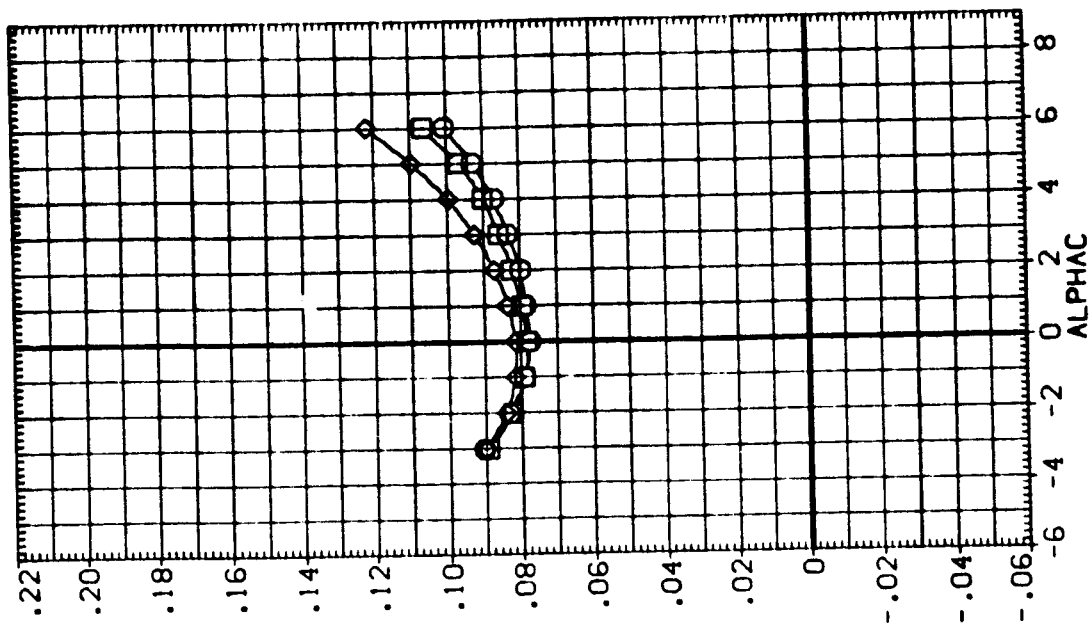
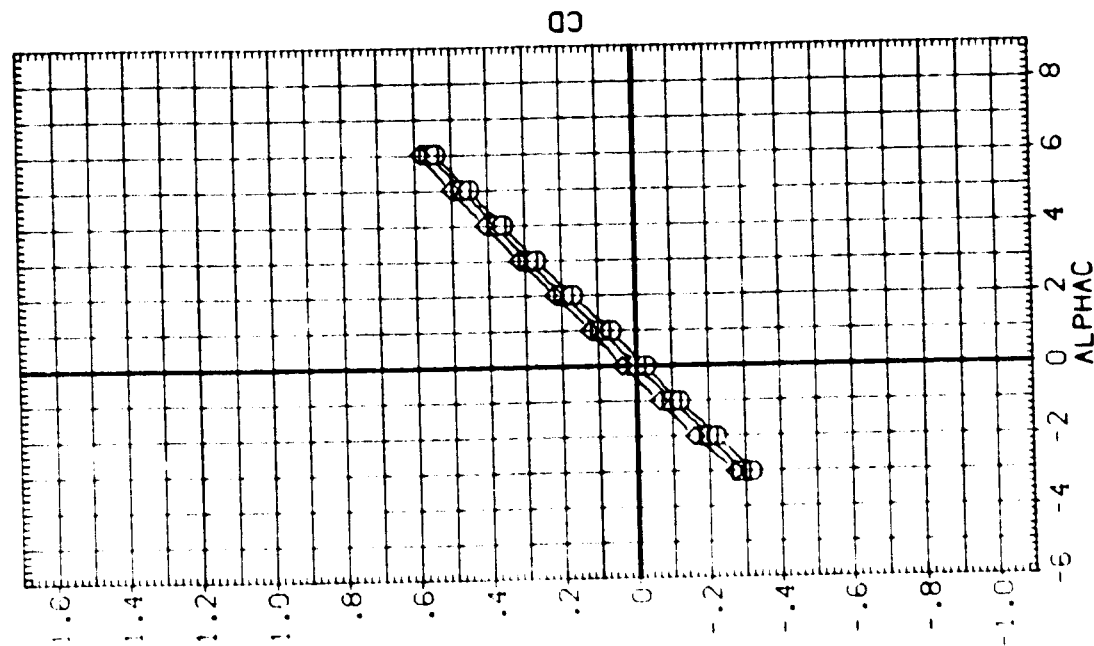


FIG. 10 MATED (ORBITER + CARRIER) AERO CHARACTERISTICS (INTERPOLATED I-ORB)

(A) MACH = .60



DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (NEG52) CA23 747/1 01 AT1 (MATED)
 (NEG53) CA23 747/1 01 AT1 (MATED)
 (NEG54) CA23 747/1 01 AT1 (MATED)

STAB-C ELV-0 AIL-0 IADRB
 5.000 5.000 -10.000 4.000
 5.000 5.000 -10.000 6.000
 5.000 5.000 -10.000 8.000

REFERENCE INFORMATION
 SREF 5500.0000 SQ.FT.
 LREF 327.7800 IN.
 BREF 2348.0400 IN.
 XMRP 1339.5000 IN. XC
 YMRP .0000 IN. YC
 ZMRP 190.7500 IN. ZC
 SCALE .0125

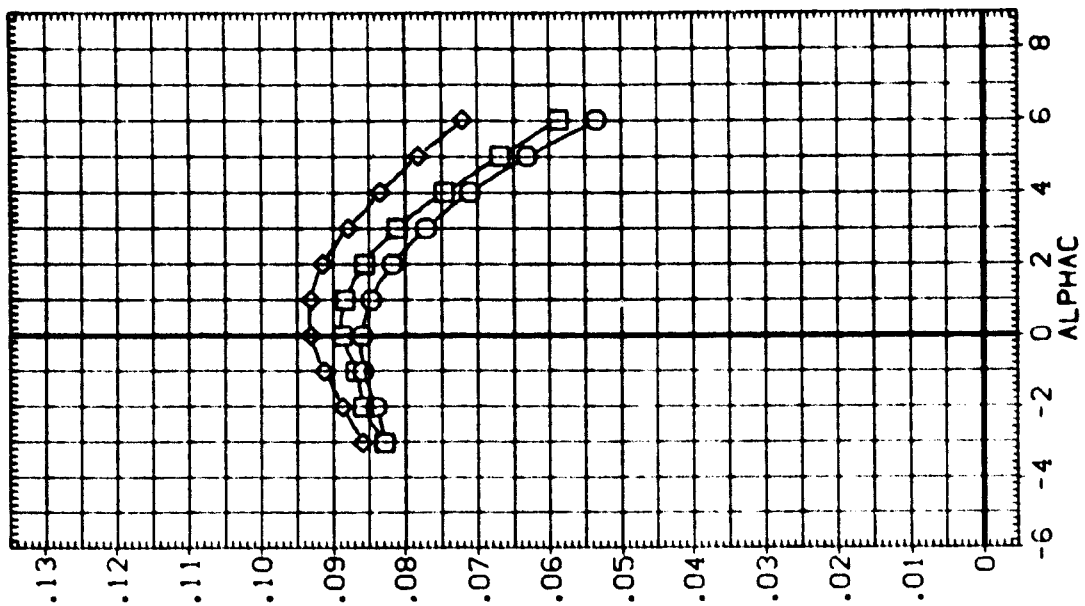
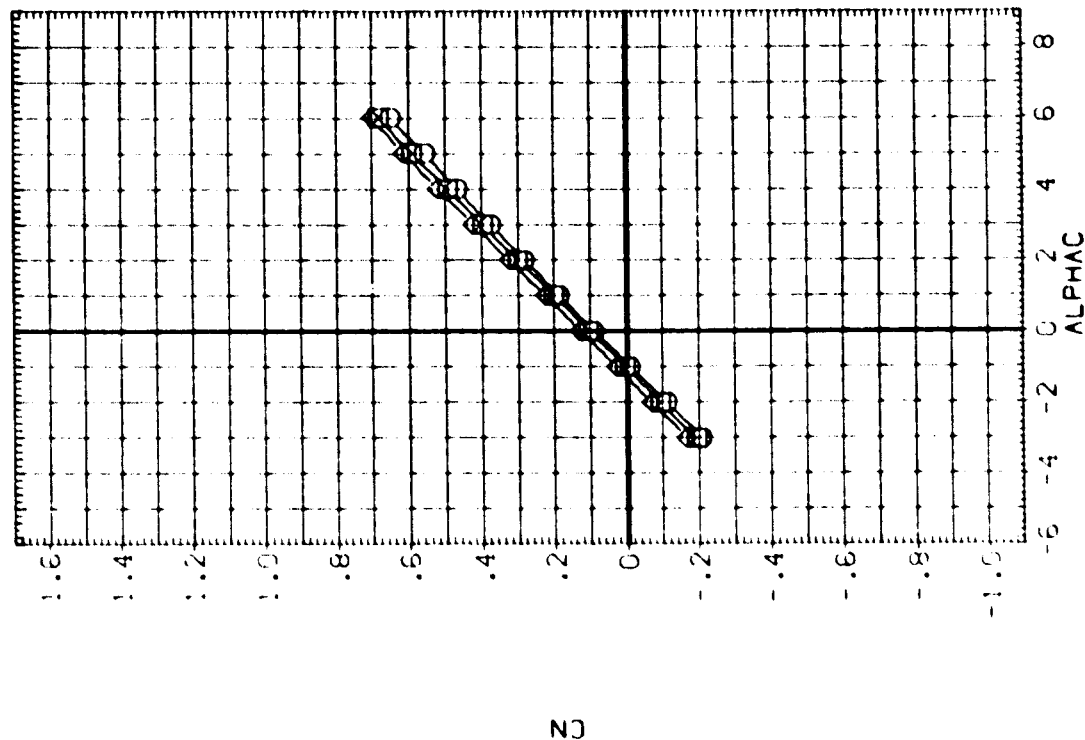


FIG. 10 MATED (ORBITER + CARRIER) AERO CHARACTERISTICS (INTERPOLATED I-OR8)

(ALPHA) = .60

DATA SHEET

CONFIGURATION DESCRIPTION
 ARS-1-080-1 CA23 747/1 01 AT1 (MATED)
 ARS-1-080-1 CA23 747/1 01 AT1 (MATED)
 ARS-1-080-1 CA23 747/1 01 AT1 (MATED)

STAB-C ELV-0 AIL-0
 5.000 -10.000
 5.000 -10.000
 5.000 -10.000

IACKB 4.000
 6.000
 8.000
 REFERENCE INFORMATION
 SREF 5500.0000 SQ.FT.
 LREF 327.7800 IN.
 BREF 2348.0400 IN.
 XMRP 1339.9000 IN.
 YMRP 190.7500 IN.
 ZMRP 190.7500 IN.
 SCALE .0125

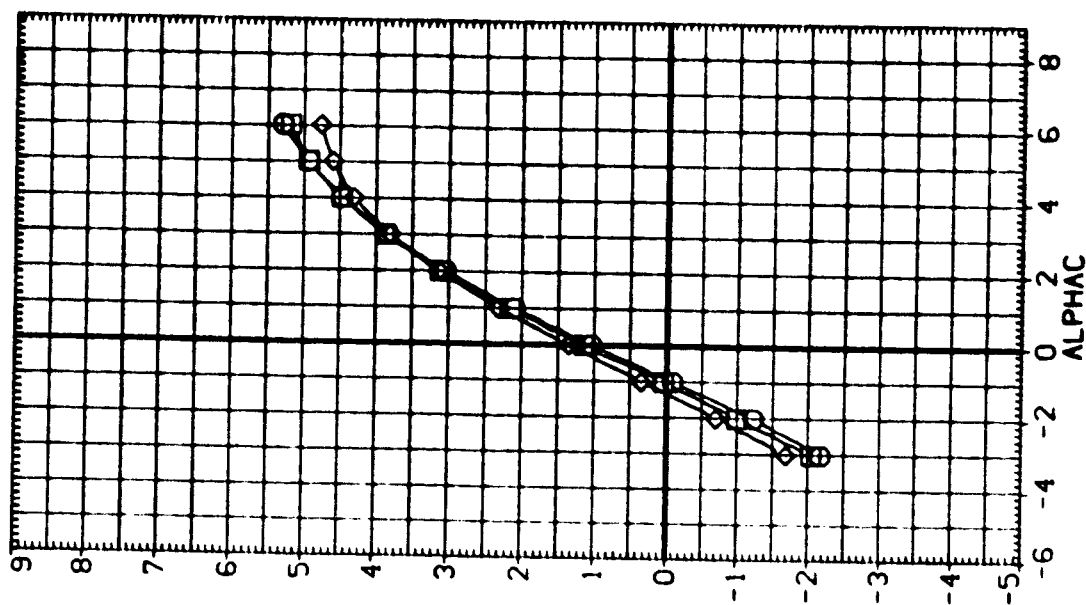
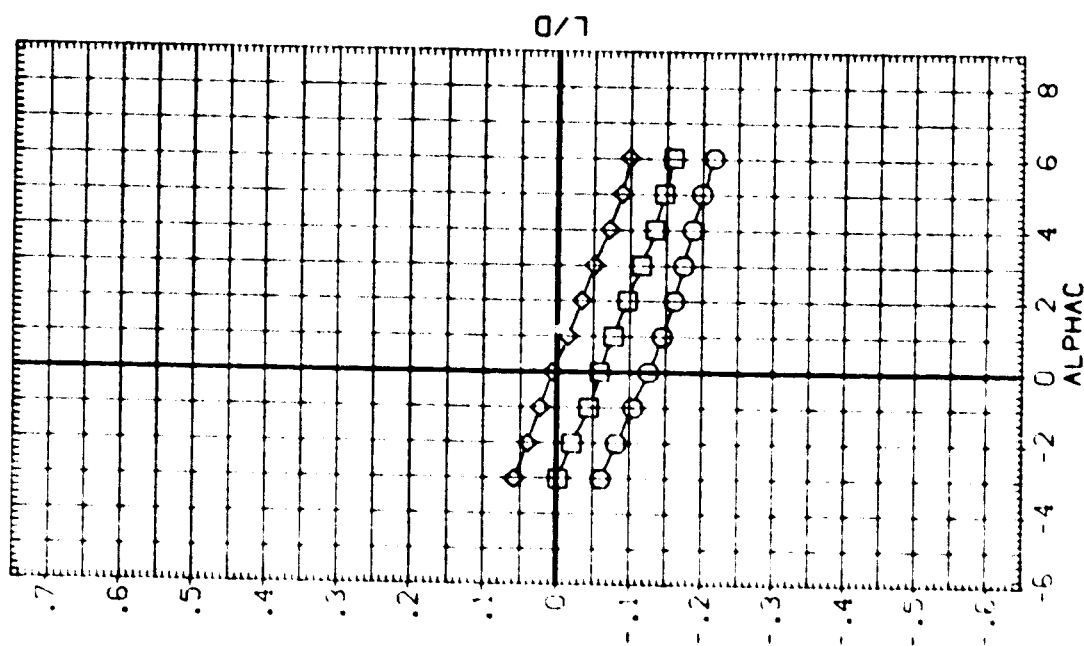


FIG. 10 MATED (ORBITER + CARRIER) AERO CHARACTERISTICS (INTERPOLATED I-OR8)

(A) MACH = .60

DATA SET: 1000
 NAME: 1000
 NO. OF CASES: 1000

CONFIGURATION DESCRIPTION
 AMPLA 0001 CA23 747/1 01 ATL (MATED)
 AMPLA 0002 CA23 747/1 01 ATL (MATED)
 AMPLA 0003 CA23 747/1 01 ATL (MATED)

STAB-C ELV-O AIL-O IAOB
 5.000 5.000 -10.000 4.000
 5.000 5.000 -10.000 6.000
 5.000 5.000 -10.000 8.000

REFERENCE INFORMATION
 SREF 5500.0000 SQ.FT.
 LREF 327.7800 IN.
 BREF 2348.0400 IN.
 XMRP 1339.5000 IN. MC
 YMRP .0000 IN. VC
 ZMRP 190.7500 IN. ZC
 SCALE .0125

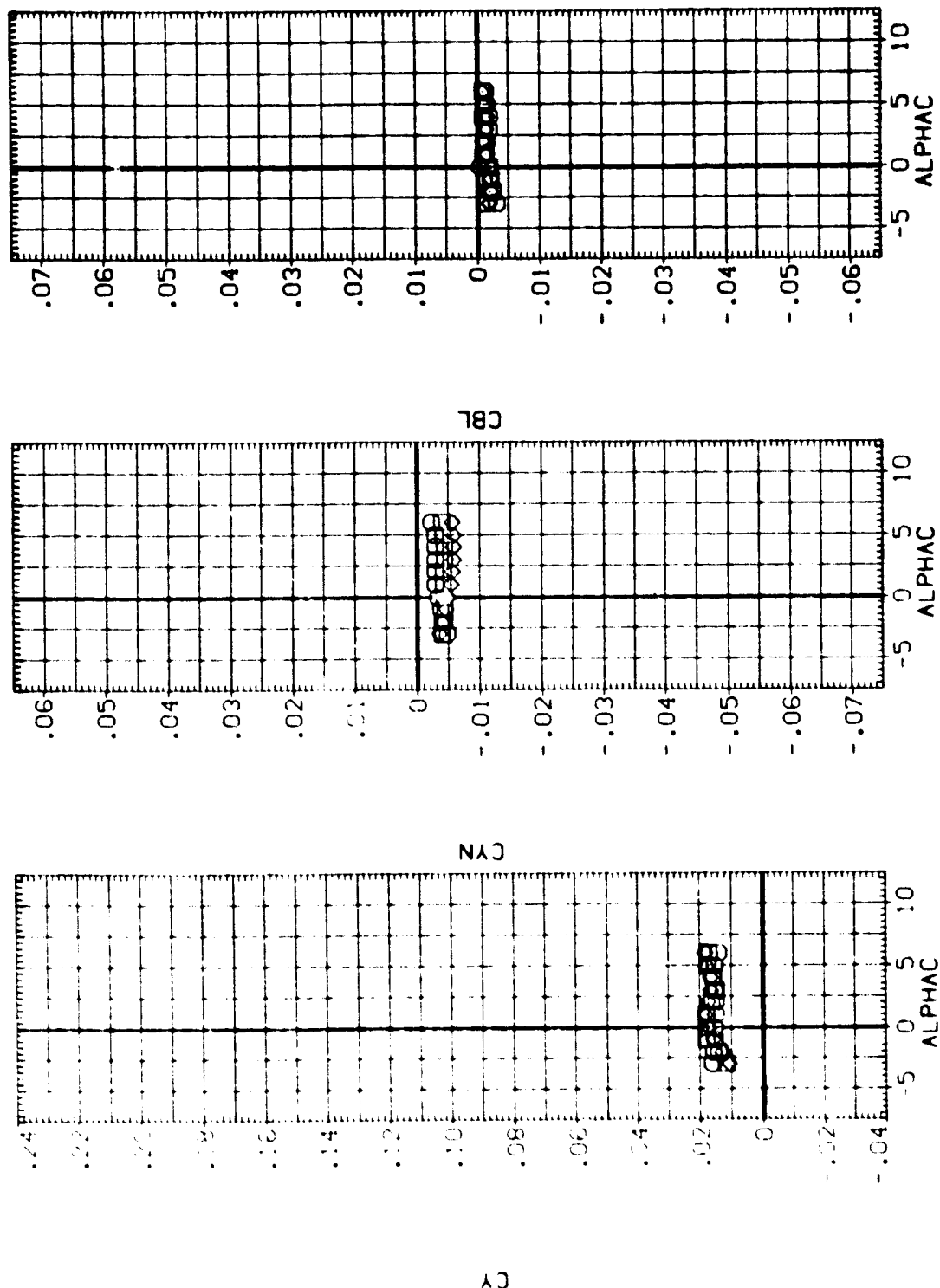


FIG. 10 MATED (ORBITER + CARRIER) AERO CHARACTERISTICS (INTERPOLATED I-ORB)
 (A) MAC = .60

DATA SET SYMBOL

ARC14-080-1 CA23 747/1 01 ATI (MATED)
 ARC14-080-1 CA23 747/1 01 ATI (MATED)
 ARC14-080-1 CA23 747/1 01 ATI (MATED)

CONFIGURATION DESCRIPTION

STAB-C ELV-0 AIL-0 IAOB8
 5.000 5.000 -10.000 4.000
 5.000 5.000 -10.000 6.000
 5.000 5.000 -10.000 8.000

REFERENCE INFORMATION

SREF 5500.0000 SB.FT.
 LREF 327.7800 IN.
 BREF 2348.0400 IN.
 XMRP 1339.9000 IN.
 YMRP 190.7500 IN.
 ZMRP 190.7500 IN.
 SCALE .0125

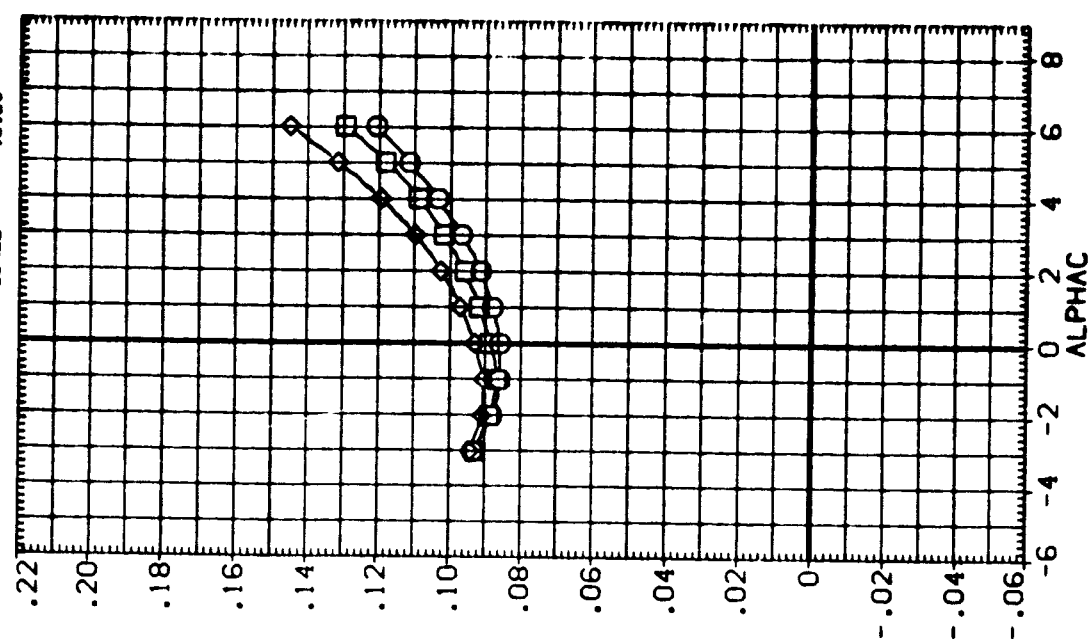
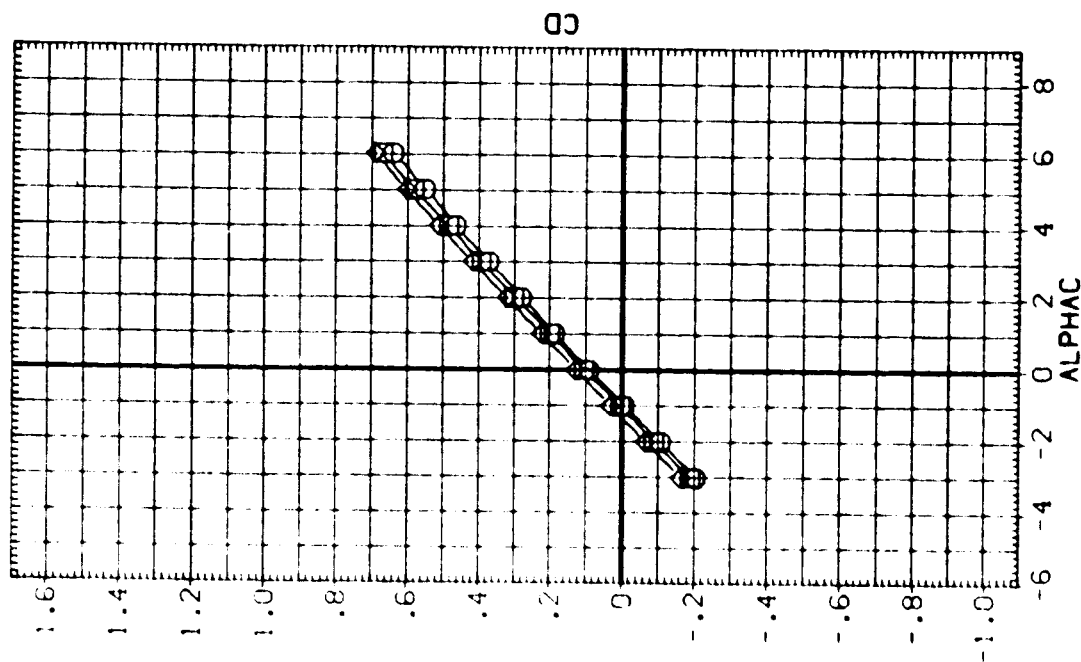


FIG. 10 MATED (ORBITER + CARRIER) AERO CHARACTERISTICS (INTERPOLATED I-OR8)

(A)MACH = .60

STAB-C	RUD-C	ELV-0	1A0RB	REFERENCE	INFORMATION
5.000	.000	5.000	6.000	SREF	5500.0000
5.000	.000	5.000	8.000	LREF	327.7800
				SREF	2348.0400
				XMRP	1339.9000
				YMRP	1000.0000
				ZMRP	190.7500
				SCALE	.0125

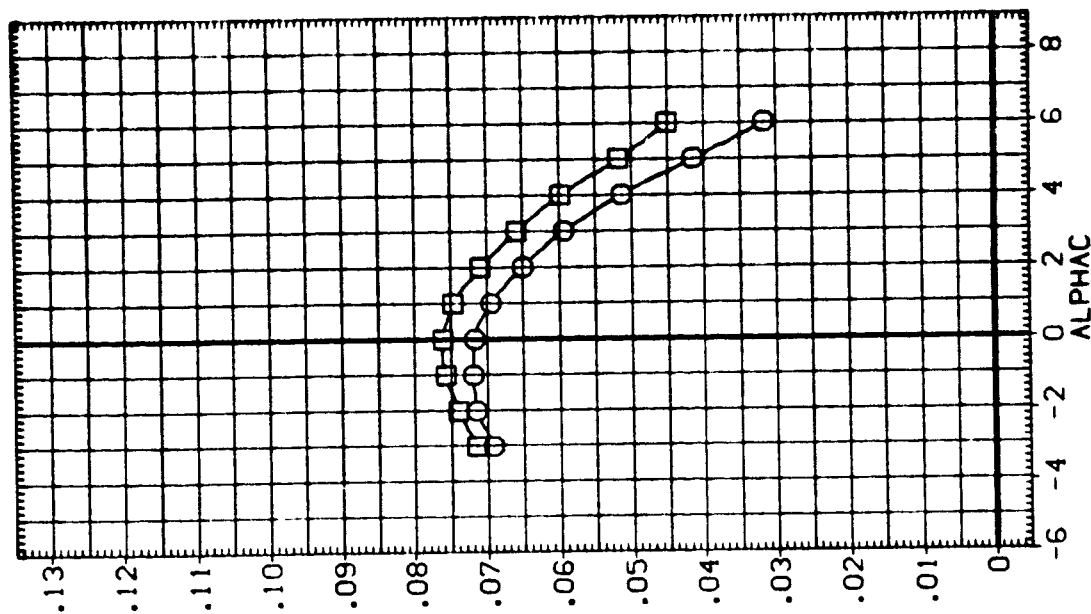
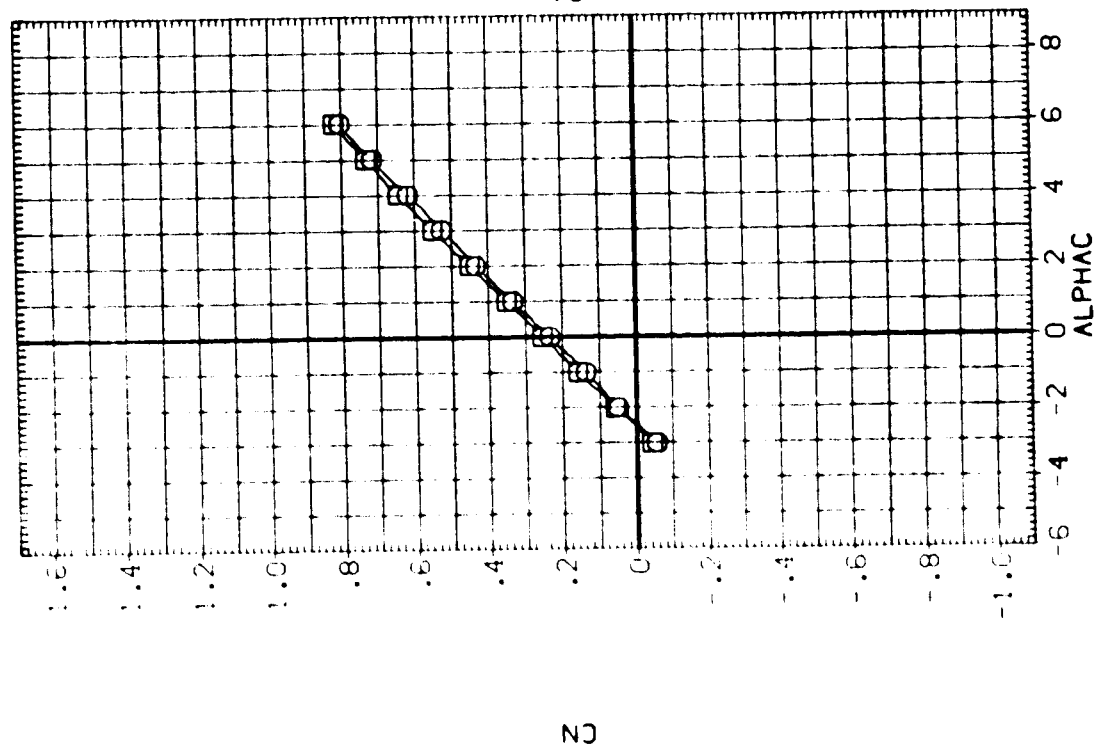


FIG. 10 MATED (ORBITER + CARRIER) AERO CHARACTERISTICS (INTERPOLATED I-ORB)

(A) MACH = .60 PAGE 265

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	STAB-C	RUD-C	ELV-0	IAOR0	REFERENCE INFORMATION
ARC14-080-1	CA23 747/1(-S1-S12)01 AT1(MATED)	5.000	.000	5.000	6.000	SREF 5500.0000 SO.FT.
ARC14-080-1	CA23 747/1(-S1-S12)01 AT1(MATED)	5.000	.000	5.000	8.000	LREF 327.7800 IN.
						BREF 2348.0400 IN.
						XMRP 1339.9000 IN. KC
						YMRP .0000 IN. VC
						ZMRP 190.7500 IN. ZC
						SCALE .0125

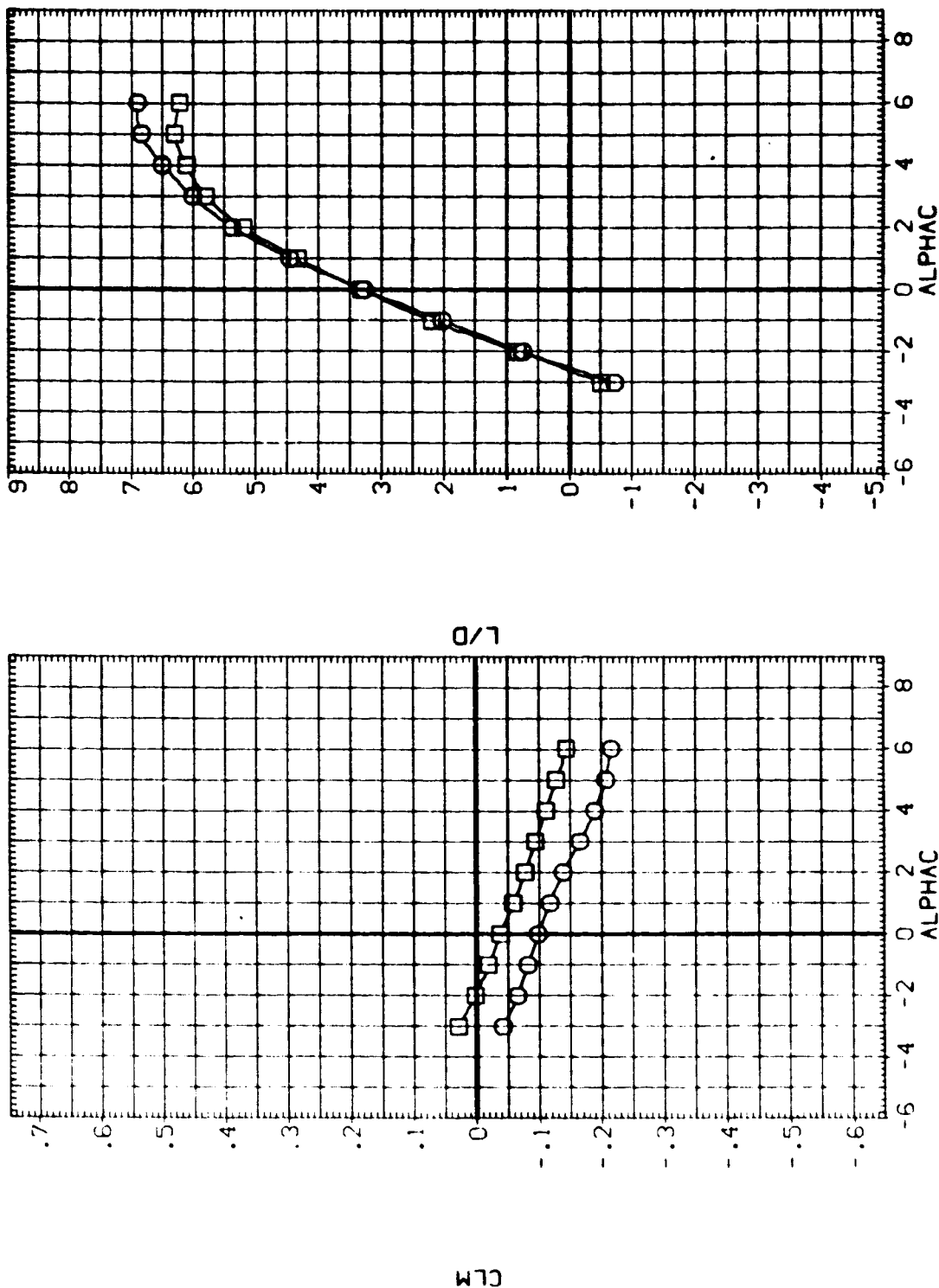


FIG. 10 MATED (ORBITER + CARRIER) AERO CHARACTERISTICS (INTERPOLATED I-ORB)

(A)MACH = .60

DATA DESCRIPTION
(NES053)
(NES054)

CONFIGURATION DESCRIPTION
ARC14-080-1 CA23 747/1(-SI-S12)01 AT1(MATED)
ARC14-086-1 CA23 747/1(-SI-S12)01 AT1(MATED)

REFERENCE INFORMATION
SREF 5500.0000 SO.FT.
LREF 327.7800 IN.
BREF 2348.0400 IN.
XMRP 1339.9000 IN. MC
YMRP .0000 IN. VC
ZMRP 190.7500 IN. ZC
SCALE .0125

STAB-C RUD-C ELV-0
5.000 .000 5.000
5.000

IAORB
6.000
8.000

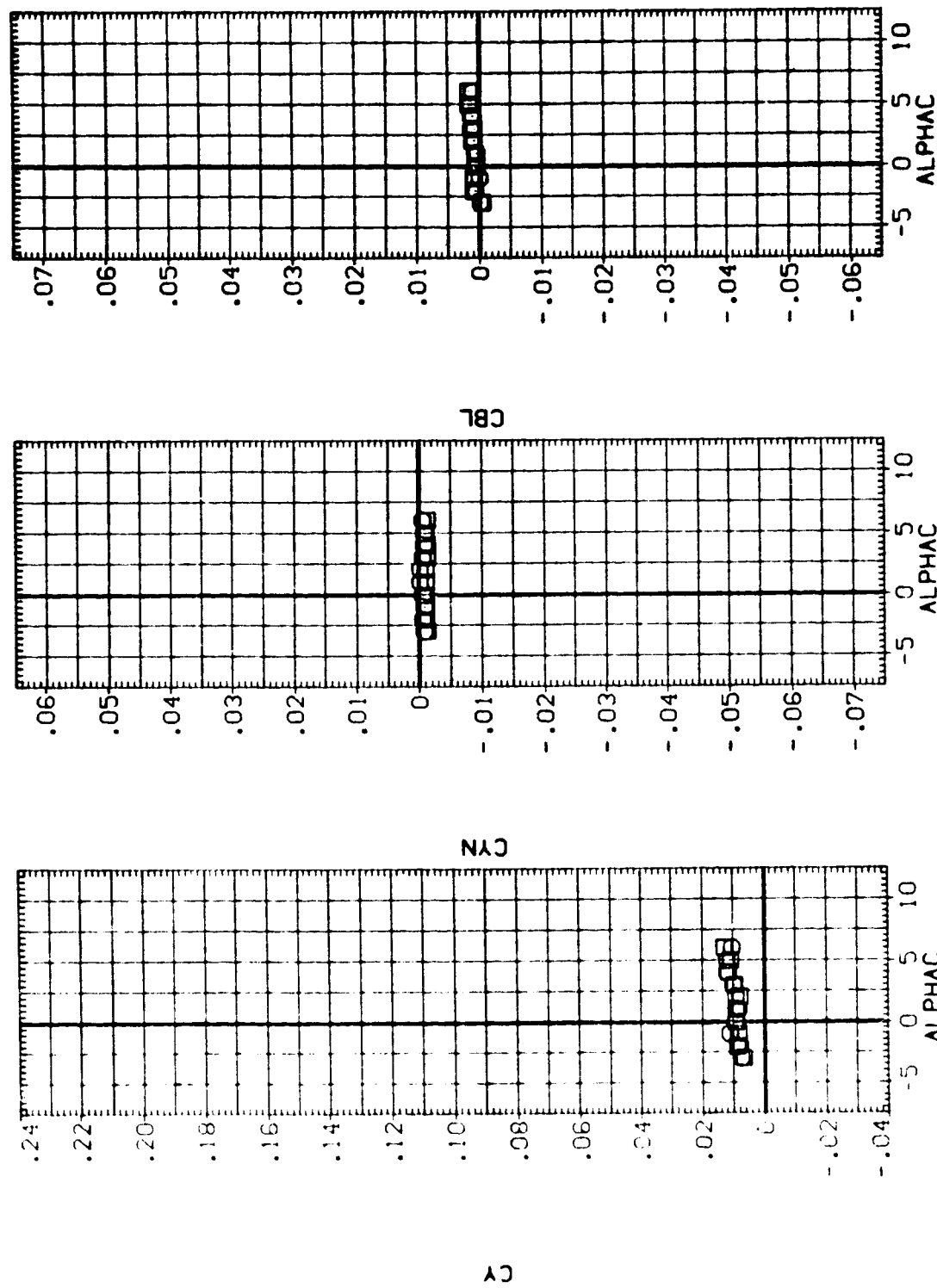


FIG. 10 MATED (ORBITER + CARRIER) AERO CHARACTERISTICS (INTERPOLATED I-ORB)
(A) MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (NE9053) ARI14-080-1 CA23 747/1(-S1-S12)01 AT1(MATED)
 (NE9054) ARI14-080-1 CA23 747/1(-S1-S12)01 AT1(MATED)

STAB-C RUO-C ELV-O IAOB REFERENCE INFORMATION
 5.000 .000 5.000 6.000 SREF 5500.0000 SQ.FT.
 5.000 .000 5.000 8.000 LREF 327.7800 IN.
 BREF 2348.0400 IN.
 XMRP 1339.8000 IN. MC
 YMRP .0000 IN. VC
 ZMRP 190.7500 IN. ZC
 SCALE .0125

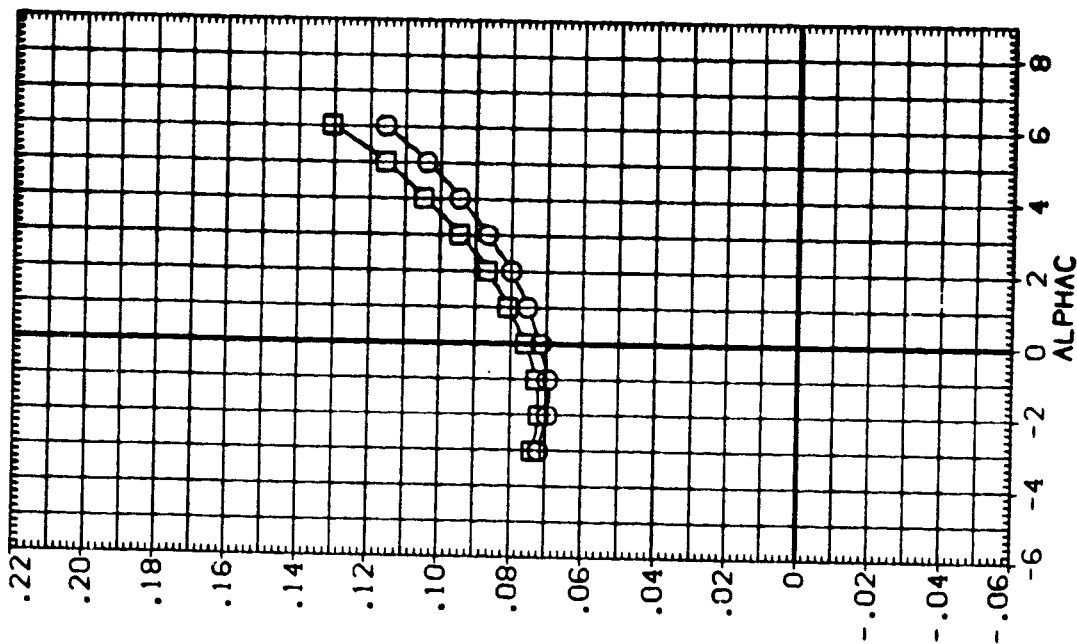
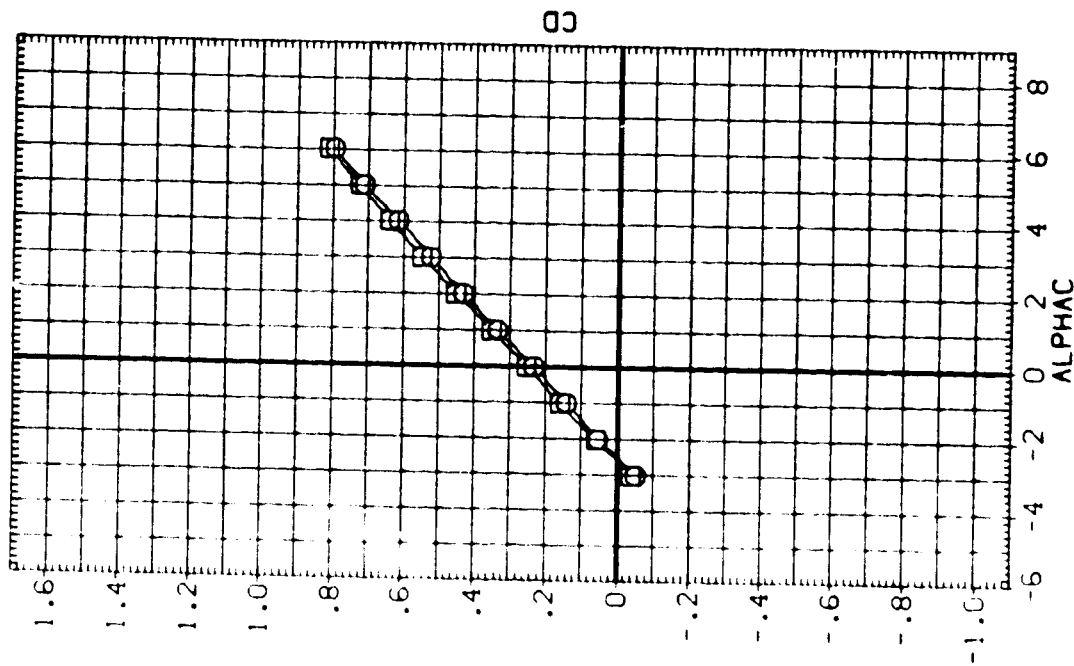


FIG. 10 MATED (ORBITER + CARRIER) AERO CHARACTERISTICS (INTERPOLATED I-ORR)
 (A) MACH = .60

DATA SET NAME	CONFIGURATION DESCRIPTION	(MATED)
LINE 2091	ARC14-080-1 CA23 747/1 03 AT1	(MATED)
LINE 2601	ARC14-080-1 CA23 747/1 03 AT1	(MATED)

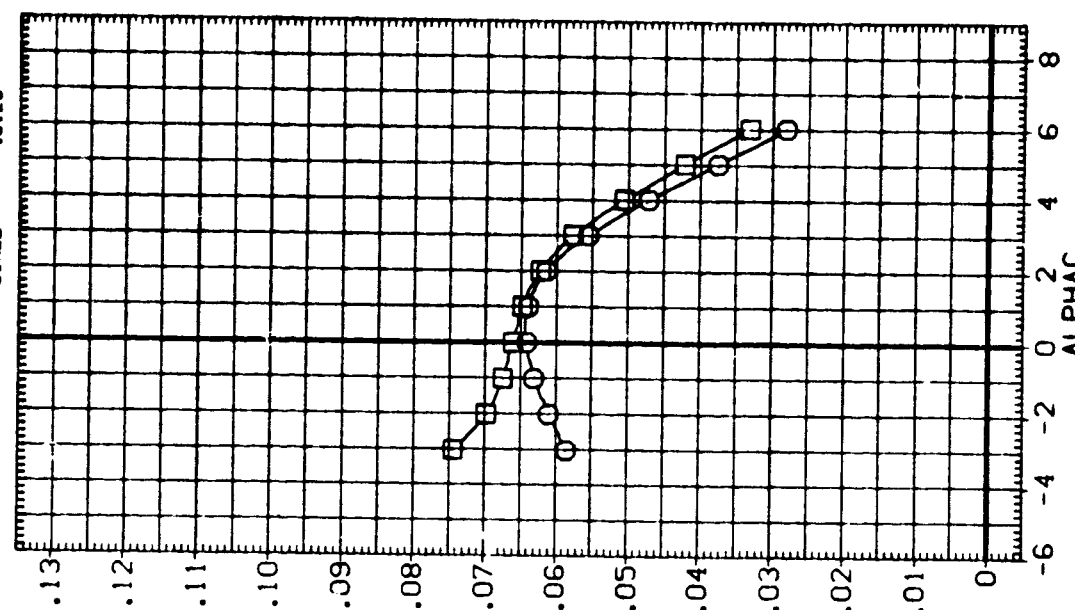
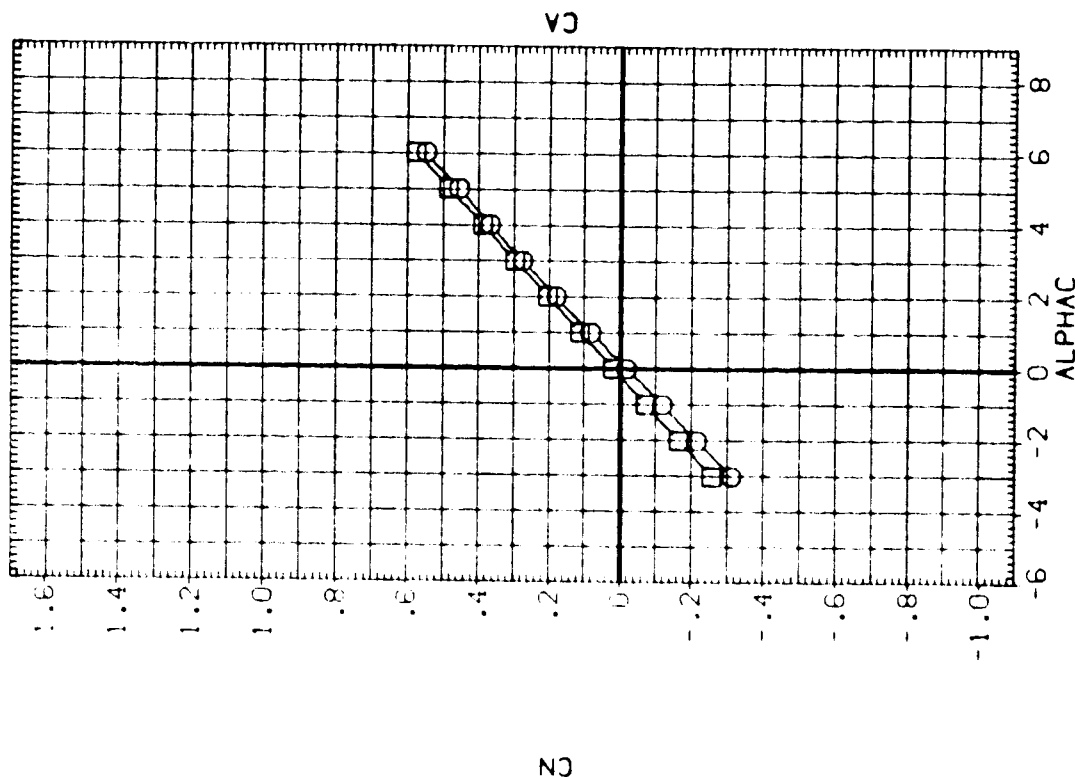


FIG. 10 MATED (ORBITER + CARRIER) AERO CHARACTERISTICS (INTERPOLATED I-OR8)

$$1.4 \text{ MACH} = .60$$

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ORIGINAL PAGE IS POOR**

DATA SET SYMBOL: CONF IGURATION DESCRIPTION
 (NE9029) ARC14-080-1 CA23 747/1 03 AT1 (MATED)
 (NE9060) ARC14-080-1 CA23 747/1 03 AT1 (MATED)

STAB-C RUD-C ELV-0 IAOB8
 -1.000 .000 .000 4.000
 -1.000 .000 .000 6.000

REFERENCE INFORMATION
 SREF 5500.0000 SQ.FT.
 LREF 327.7800 IN.
 BREF 2348.0400 IN.
 XMRP 1339.5000 IN.
 YMRP .0000 IN.
 ZMRP 190.7500 IN.
 SCALE .0125

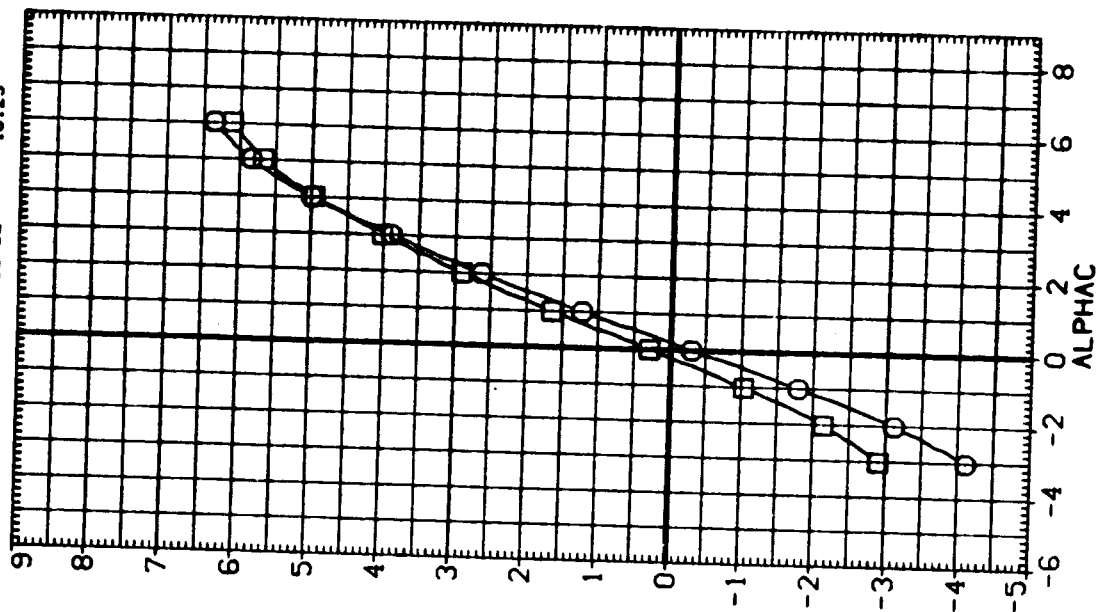
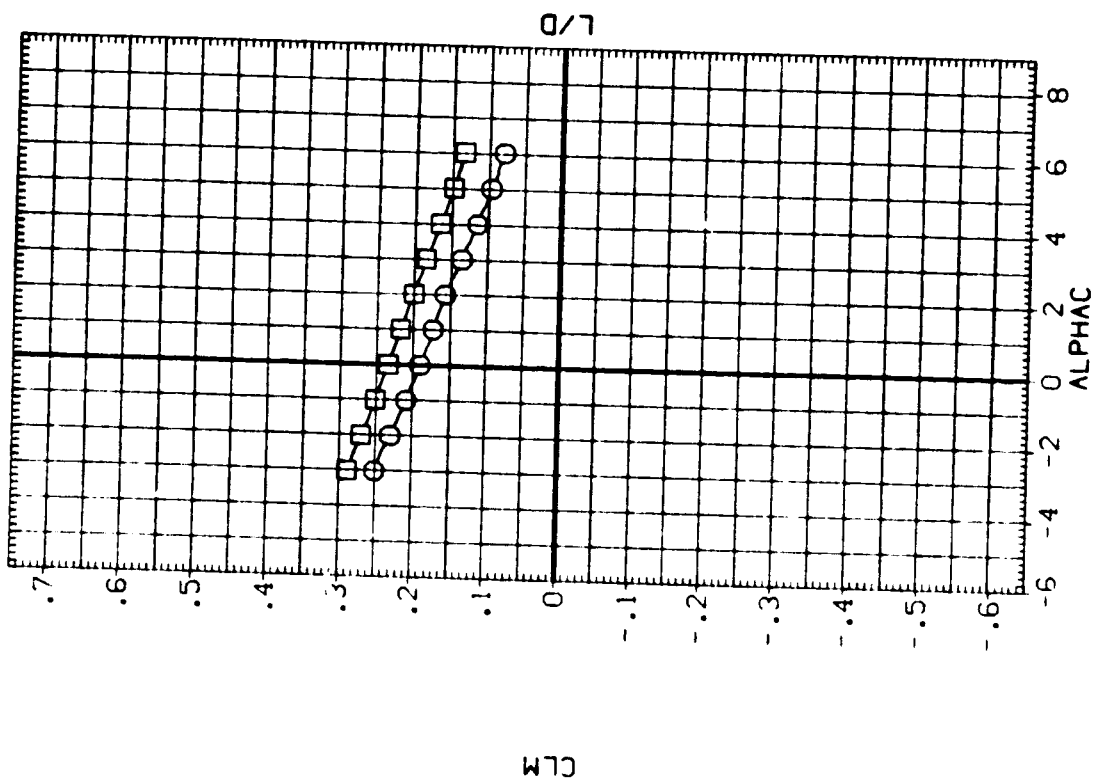


FIG. 10 MATED (ORBITER + CARRIER) AERO CHARACTERISTICS (INTERPOLATED I-ORB)
 (A)MACH = .60

DATA SET ORIGIN: COMP LOCATION DESCRIPTION
 (MATED) APC14-080-1 CA23 747/1 03 AT1 (MATED)
 (MATED) APC14-080-1 CA23 747/1 03 AT1 (MATED)

STAB-C	RUD-C	ELV-0	IAORB	REFERENCE INFORMATION
-1.000	.000	.000	4.000	SREF 5500.0000 SO.FT.
-1.000	.000	.000	6.000	LREF 327.7800 IN.
				BREF 2348.0400 IN.
				XMRP 1339.9000 IN. MC
				YMRP .0000 IN. YC
				ZMRP 190.7500 IN. ZC
				SCALE .0125

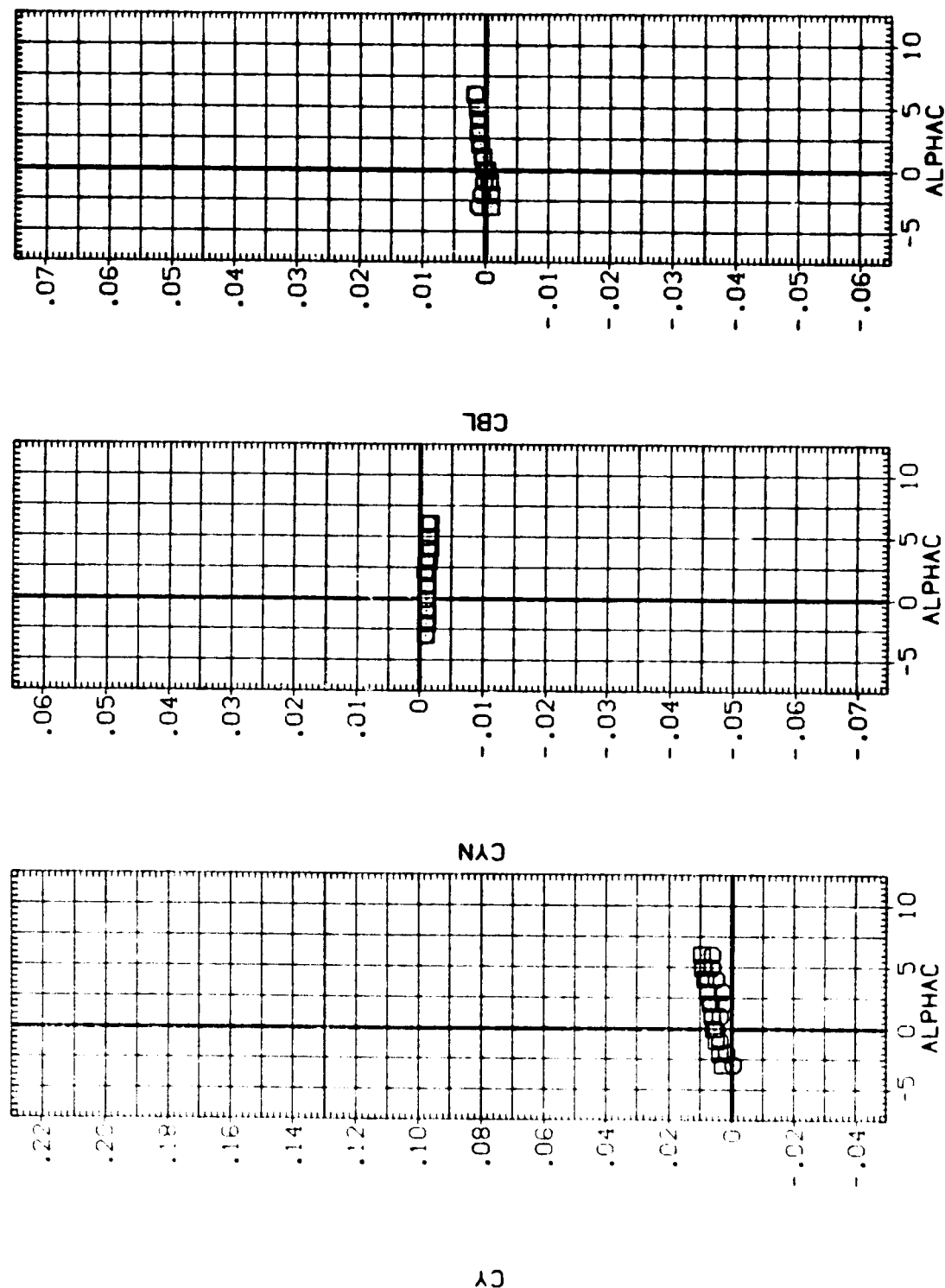


FIG. 10 MATED (ORBITER + CARRIER) AERO CHARACTERISTICS (INTERPOLATED I-OR8)
 (A) MACH = .60

DATA SET SYMBOL: **6** CONFIGURATION DESCRIPTION
 (NE 3059) **ARC14-080-1** CA23 747/1 03 ATI (MATED)
 (NE 3059) **ARC14-080-1** CA23 747/1 03 ATI (MATED)

STAB-C RUO-C ELV-0 IAR08
 -1.000 .000 .000 4.000
 -1.000 .000 .000 6.000

REFERENCE INFORMATION
 SREF 5500.0000 50.FT.
 LREF 327.7800 IN.
 SREF 2348.0400 IN.
 XTRP 1335.9000 IN. MC
 YTRP .0000 IN. VC
 ZTRP 190.7500 IN. ZC
 SCALE .0125

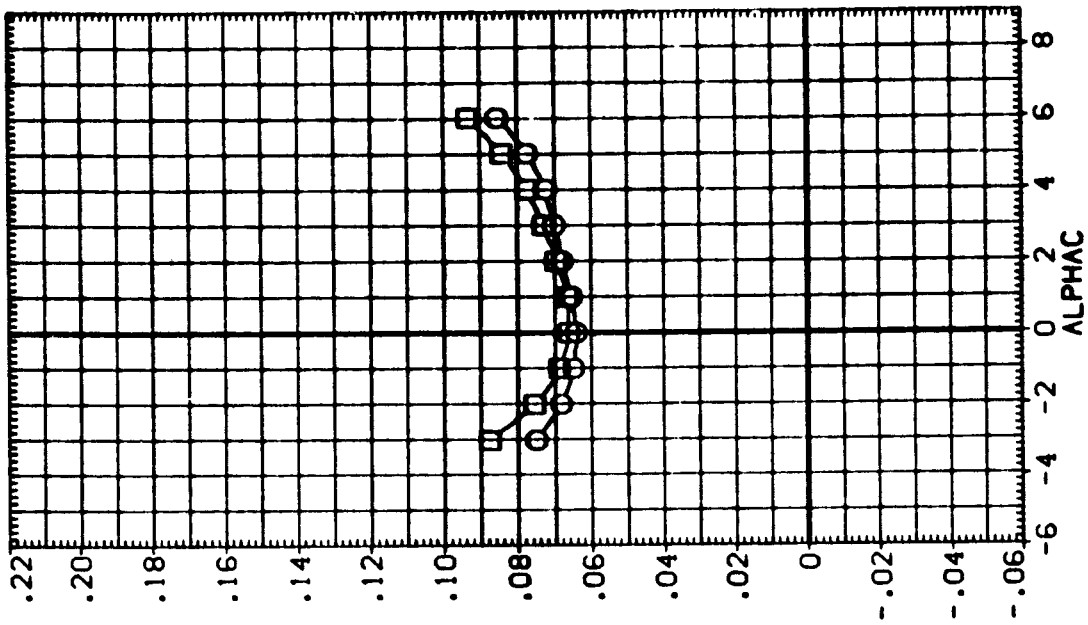
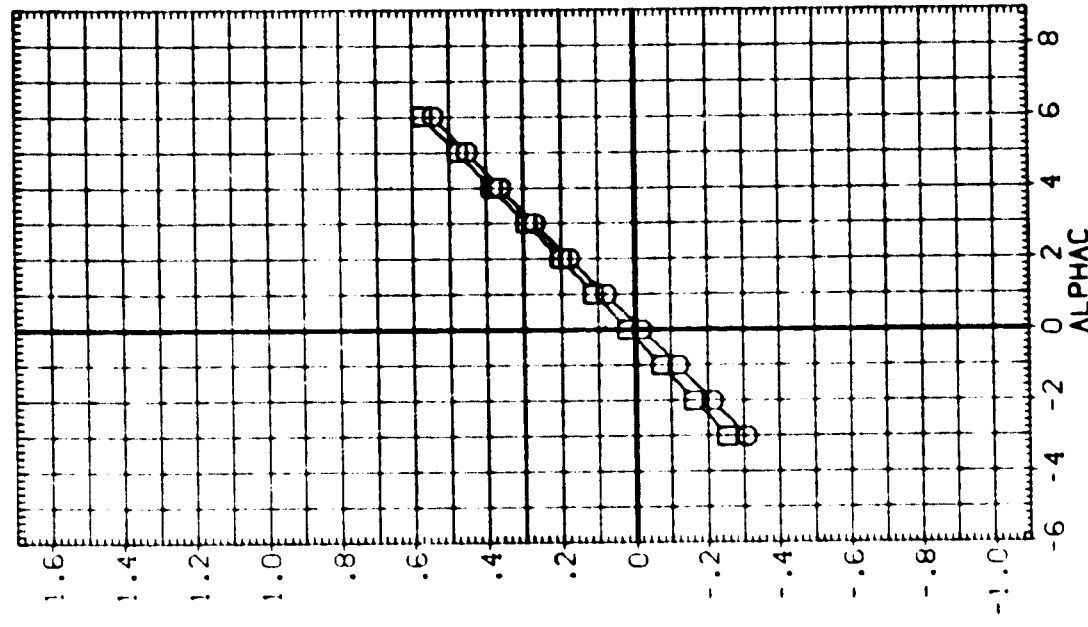


FIG. 10 MATED (ORBITER + CARRIER) AERO CHARACTERISTICS (INTERPOLATED I-088)
 (A) MACH = .60



DATA SET SYMBOL: 14-080-1
 CONFIGURATION DESCRIPTION: CA23 747/1(-SI-S12301) AT1(MATED)
 REFERENCE INFORMATION:
 SREF 5500.0000 50 FT.
 LREF 327.7800 IN.
 BREF 2348.0400 IN.
 XMRP 1335.9000 IN.
 YMRP .0000 IN.
 ZMRP 190.7500 IN.
 SCALE .0125

BETAC -5.000
 STAB-C 5.000
 ELV-0 5.000
 IADR8 6.000
 8.000

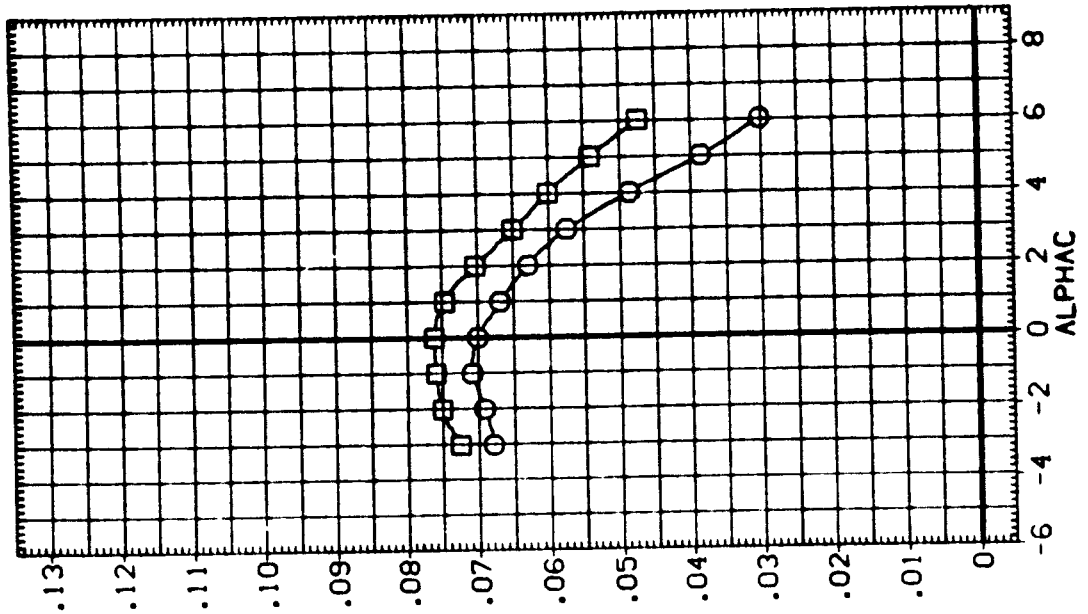
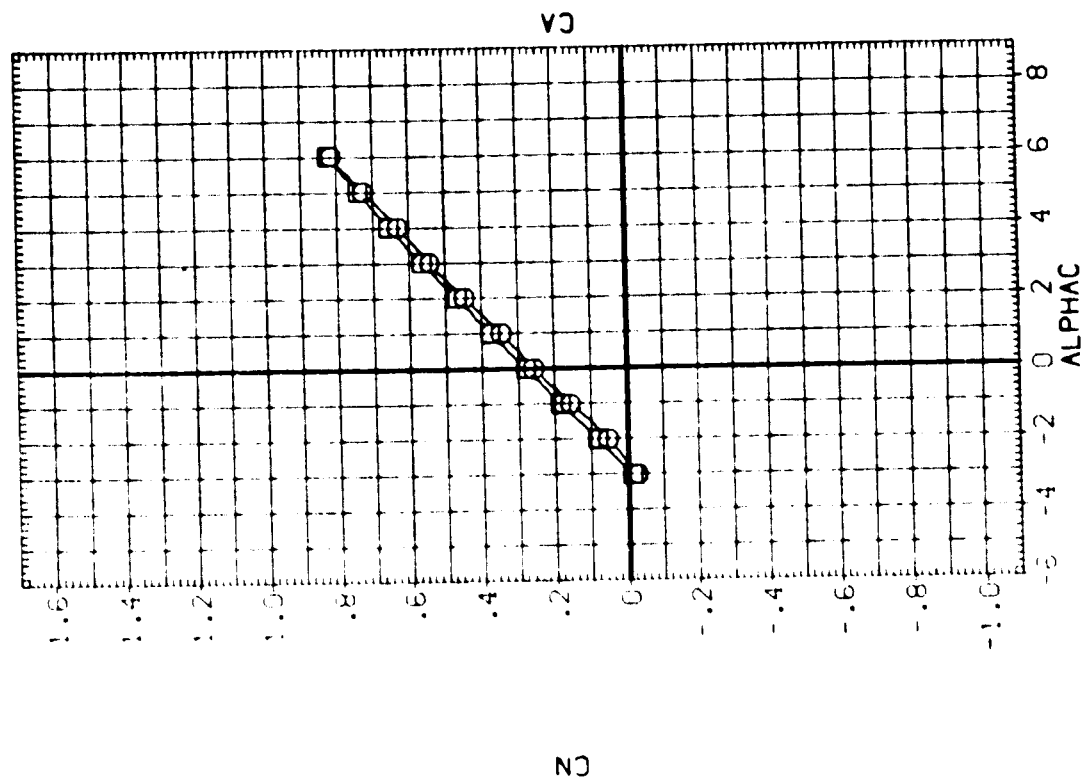


FIG. 10 MATED (ORBITER + CARRIER) AERO CHARACTERISTICS (INTERPOLATED I-OR8)

(A)MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(NE 3064) ARC 14-080-1 CA23 747/1(-S1-S12)01 ATI(MATED)
 (NE 3063) ARC 14-080-1 CA23 747/1(-S1-S12)01 ATI(MATED)

BETAC STAB-C ELV-O 1AOR8
 -5.000 5.000 5.000 6.000
 -5.000 5.000 5.000 6.000

REFERENCE INFORMATION
 SREF 5500.0000 50.FT.
 LREF 227.7800 IN.
 BREF 2348.0400 IN.
 XTRP 1338.5000 IN.
 YTRP .0000 IN.
 ZTRP 190.7500 IN.
 SCALE .0125

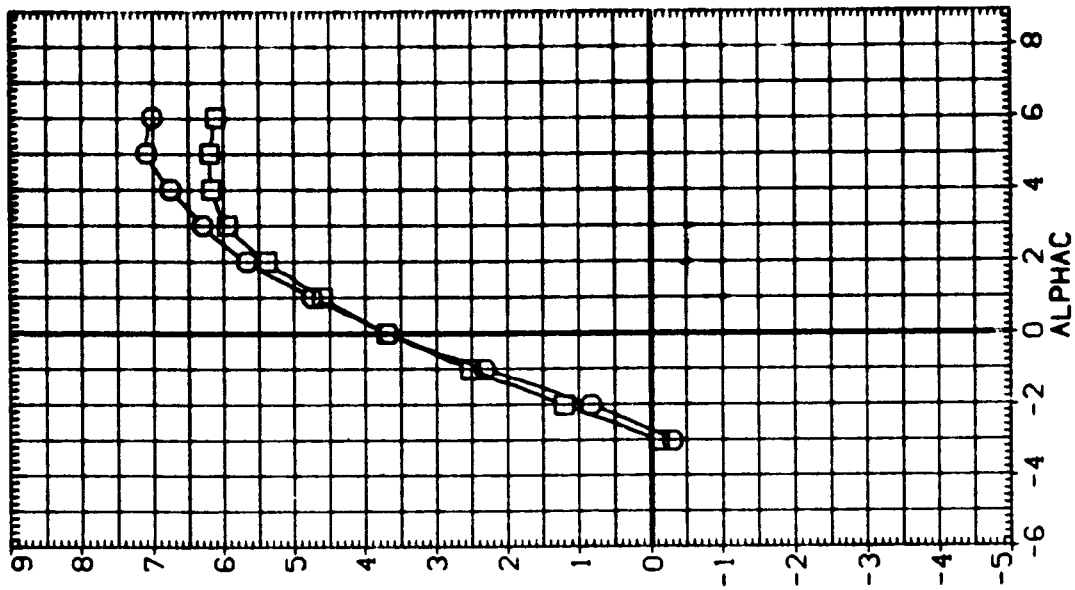
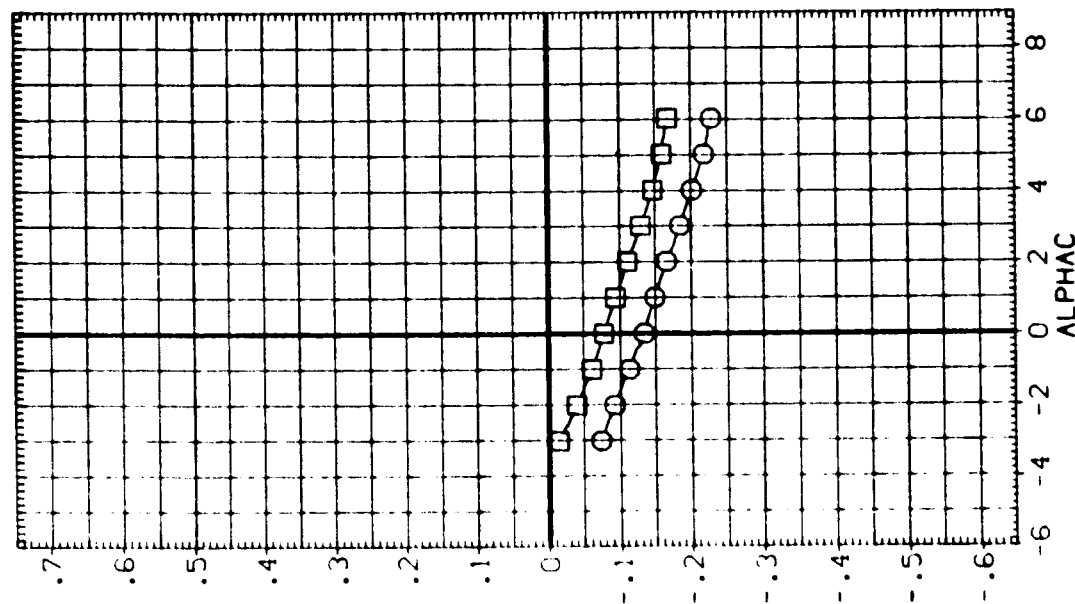


FIG. 10 MATED (ORBITER + CARRIER) AERO CHARACTERISTICS (INTERPOLATED I-ORB)

(A)MACH = .60



DATA SET 15-1-1-1 CONFIGURATION DESCRIPTION
 (MAY 1964) AR 1A-080 : CA23 747/1(-51-S12301) AT1(MATED)
 (N 3 13) AR 1A-080 : CA23 747/1(-51-S12301) AT1(MATED)

BETAC STAB-C ELV-0 IAOB8
 -5.000 5.000 6.000
 -5.000 5.000 8.000

REFERENCE INFORMATION
 SREF 5500.0000 SD J.T.
 LREF 377.7800 IN.
 BRFP 2348.0400 IN. IC
 XMRP 1339.9000 IN. VC
 YMRP 190.7500 IN. ZC
 ZMRP 190.7500 IN. ZC
 SCALE .0125

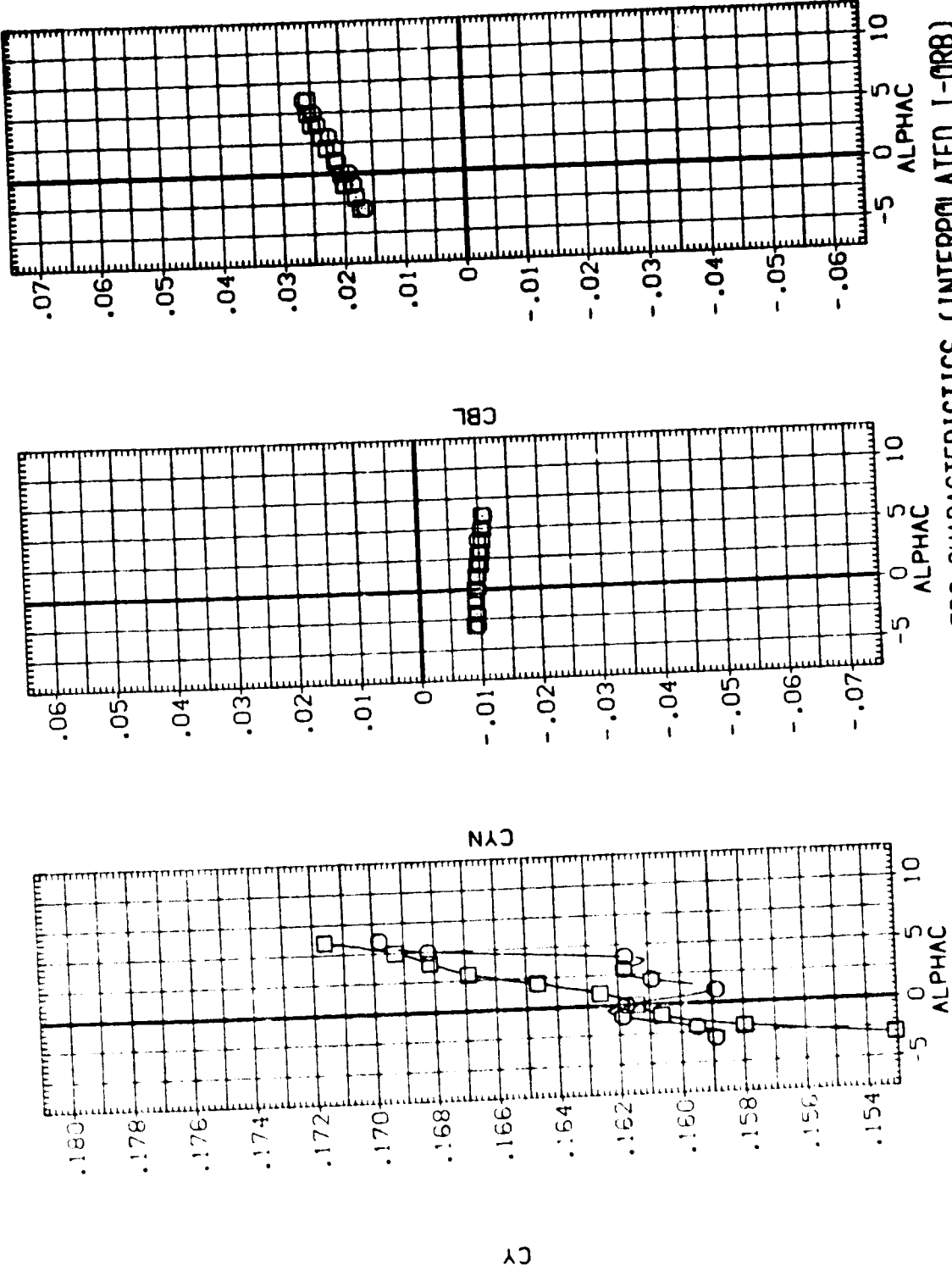


FIG. 10 MATED (ORBITER + CARRIER) AERO CHARACTERISTICS (INTERPOLATED I-OR8)
 (A) MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(AES 104) ARC14-080-1 CA23 747/1(-S1-S12)01 ATI(MATED)
 (AES 5003) ARC14-080-1 CA23 747/1(-S1-S12)01 ATI(MATED)

BETAC STAB-C ELV-0 IAGRB
 -5.000 5.000 5.000 8.000
 REFERENCE INFORMATION
 SREF 5500.0000 50.FT.
 LREF 327.7800 IN.
 BREF 2348.0400 IN.
 XMRP 1339.5000 IN. MC
 YMRP .0000 IN. VC
 ZMRP 190.7500 IN. ZC
 SCALE .0125

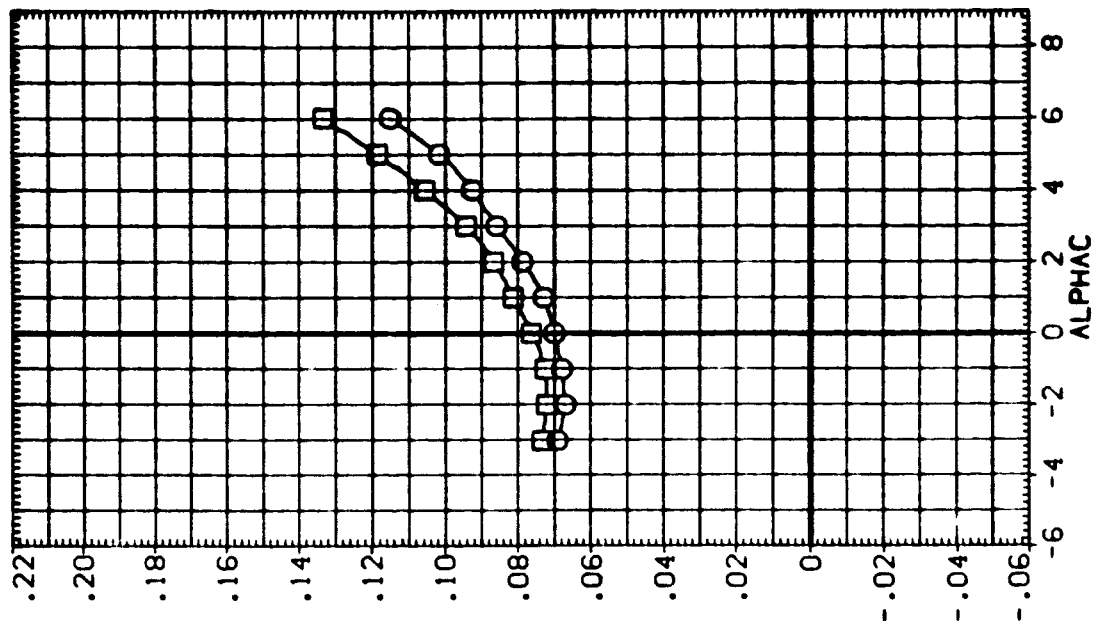
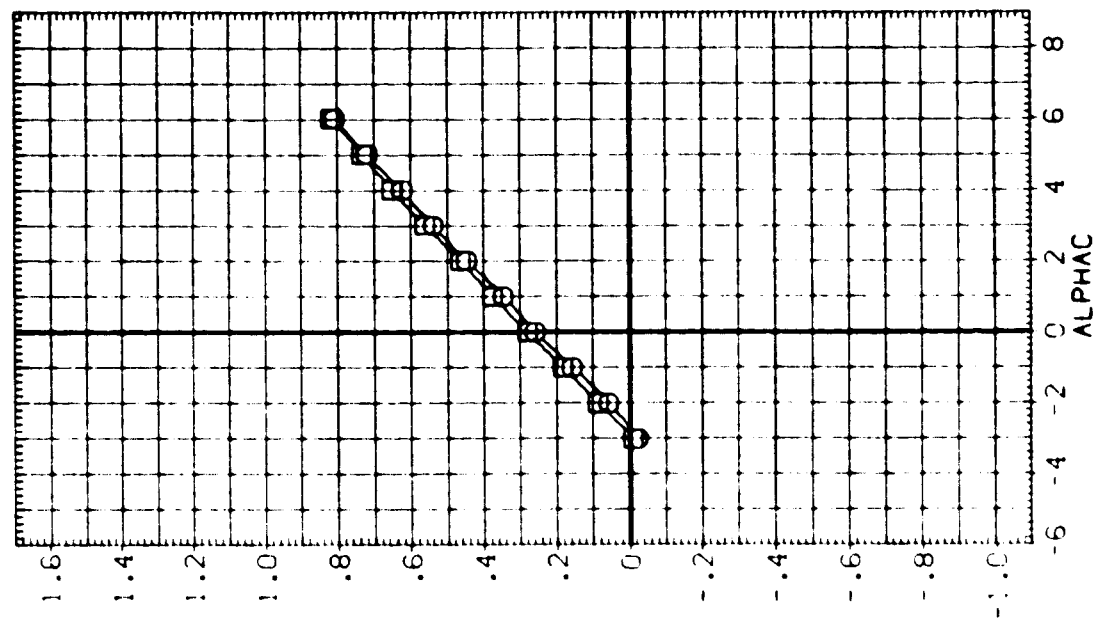


FIG. 10 MATED (ORBITER + CARRIER) AERO CHARACTERISTICS (INTERPOLATED I-OR8)

(A)MACH = .60

DATA SET (GROUP)
 (NEW) ()
 (NEW) ()

CONFIGURATION DESCRIPTION
 ARC14-083-1 CA23 747/1 01 AT1 (MATED)
 ARC14-083-1 CA23 747/1 01 AT1 (MATED)
 ARC14-083-1 CA23 747/1 01 AT1 (MATED)

BETAC STAB-C ELV-0 IADRB
 -5.000 5.000 5.000 4.000
 -5.000 5.000 5.000 6.000
 -5.000 5.000 5.000 6.000

REFERENCE INFORMATION
 SREF 5500.0000 SO.FT.
 LREF 327.7800 IN.
 BREF 2348.0400 IN.
 XMRP 1339.5000 IN. MC
 YMRP .0000 IN. VC
 ZMRP 190.7500 IN. ZC
 SCALE .0125

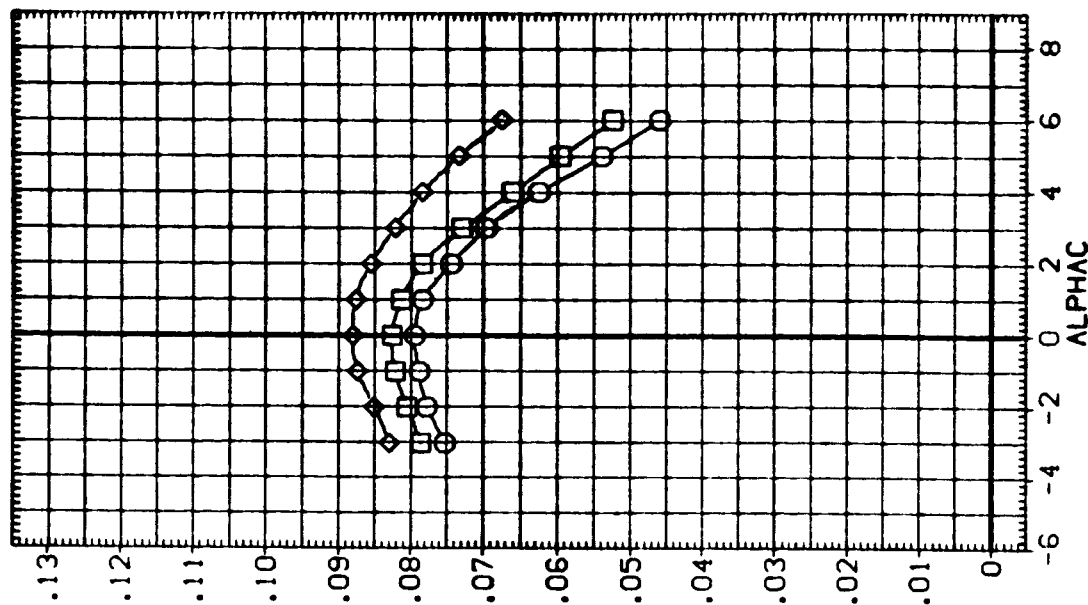
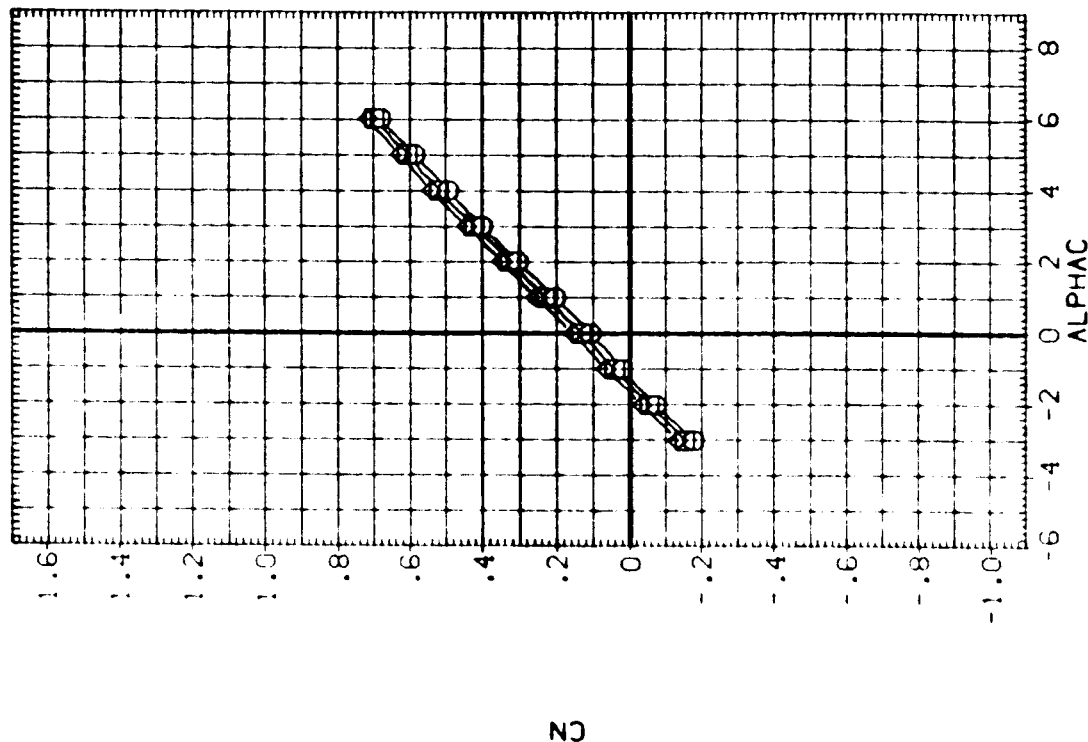


FIG. 10 MATED (ORBITER + CARRIER) AERO CHARACTERISTICS (INTERPOLATED I-ORB)

(A)MACH = .60

DATA SET SYMBOL
(NE9066)
(NE9065)
(NE9067)

CONFIGURATION DESCRIPTION
ARC14-080-1 CA23 747/1 01 AT1 (MATED)
ARC14-080-1 CA23 747/1 01 AT1 (MATED)
ARC14-080-1 CA23 747/1 01 AT1 (MATED)

BETAC STAB-C ELV-0 IASRB
-5.000 5.000 4.000
-5.000 5.000 6.000
-5.000 5.000 8.000

REFERENCE INFORMATION
SREF 5500.0000 50. FT.
LREF 327.7800 IN.
BREF 2348.0400 IN.
XREF 1339.5000 IN.
YREF .0000 IN.
ZREF 190.7500 IN.
SCALE .0125

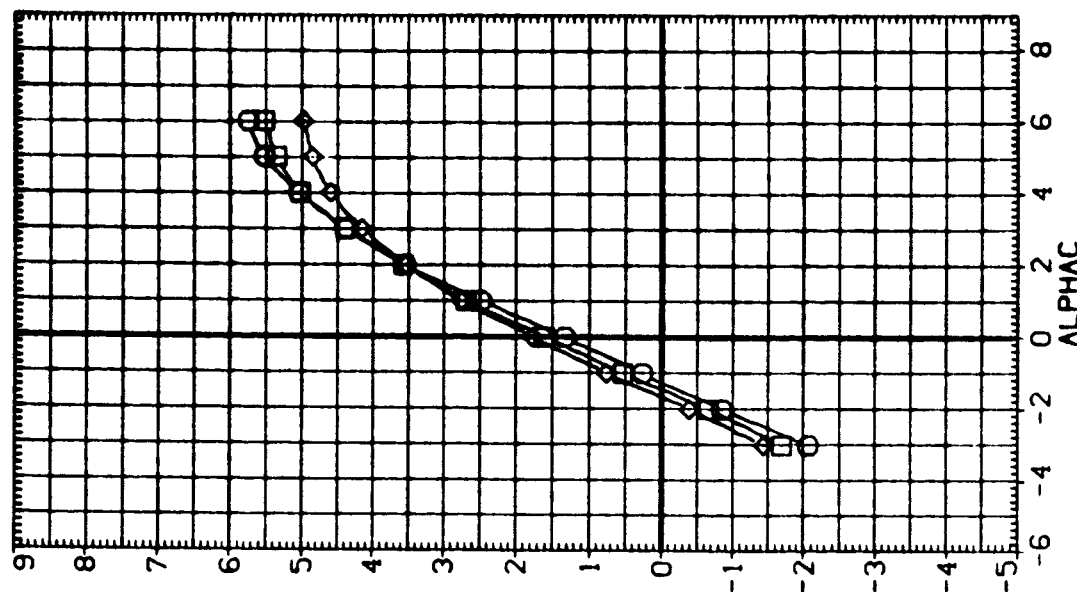
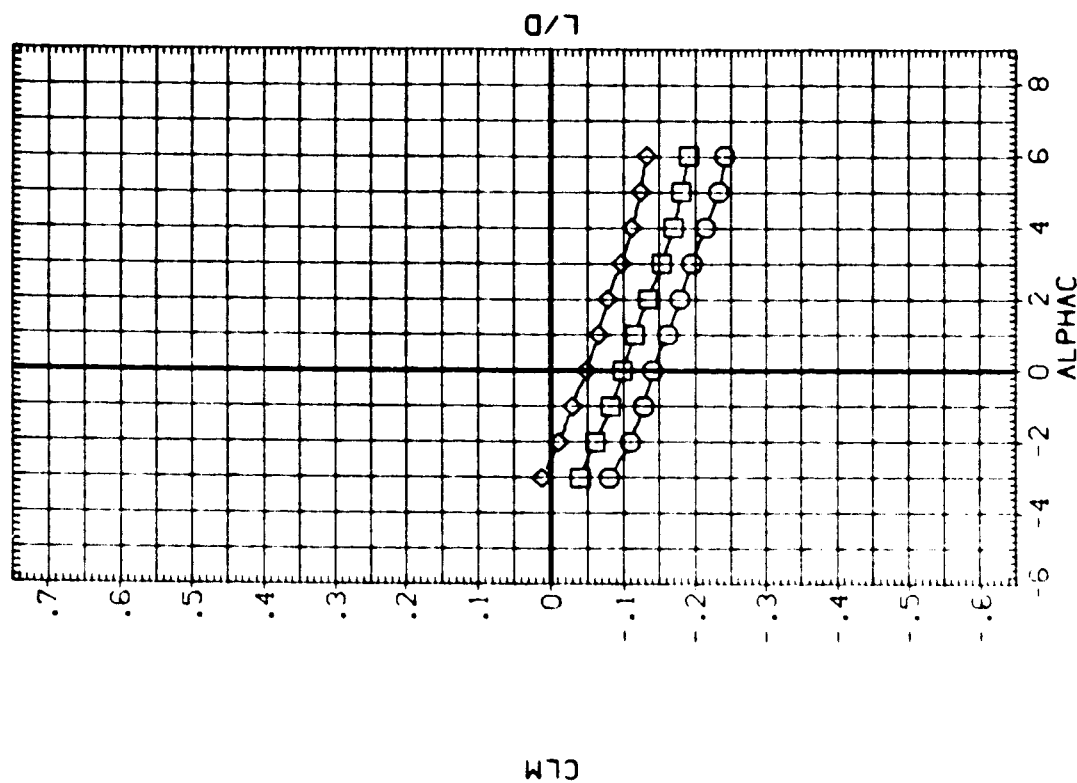


FIG. 10 MATED (ORBITER + CARRIER) AERO CHARACTERISTICS (INTERPOLATED I-ORB)

(A) MACH = .60

DATA SHEET 14-10000
 (NE 3000)
 (NE 3000)
 (NE 3000)

CONFIGURATION DESCRIPTION
 ARCL4-580-1 CA23 747/1 01 ATI (MATED)
 ARCL4-580-1 CA23 747/1 01 ATI (MATED)
 ARCL4-580-1 CA23 747/1 01 ATI (MATED)

BETAC STAB-C ELV-0 I-OR8 REFERENCE INFORMATION

REF	5500.0000	SO.FT.
SREF	5500.0000	IN.
LREF	327.7800	IN.
BREF	2348.0400	IN.
YMRP	1339.5000	IN.
ZMRP	190.7500	IN.
SCALE	.0125	IN.

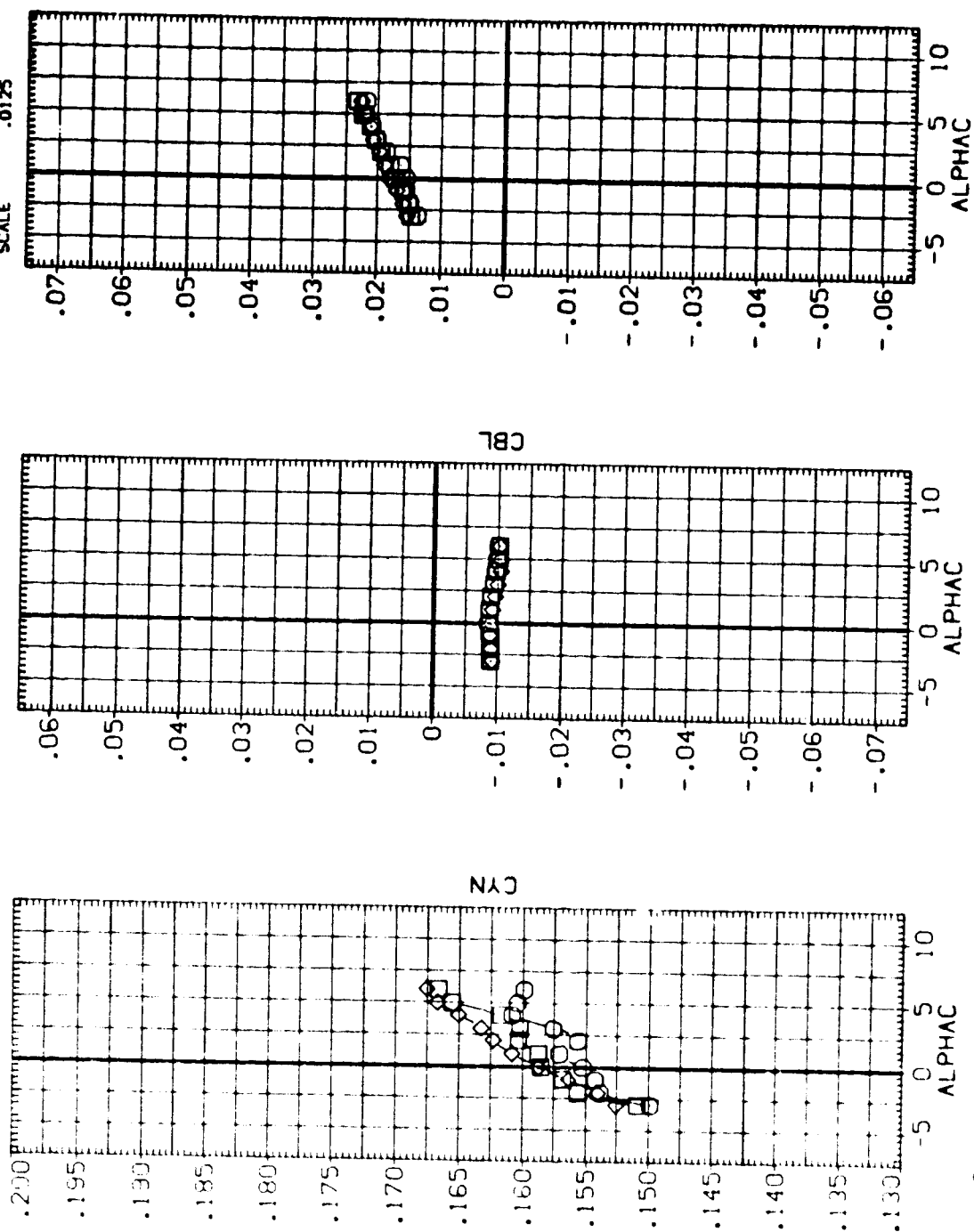


FIG. 10 MATED (ORBITER + CARRIER) AERO CHARACTERISTICS (INTERPOLATED I-OR8)

(A) MACH = .60

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		REFERENCE INFORMATION	
(NE9066)	ARC14-080-1	CA23	747/1 01 AT1 (MATED)	SREF	5500.0000 SQ.FT.
(NE9065)	ARC14-080-1	CA23	747/1 01 AT1 (MATED)	LREF	327.7800 IN.
(NE9067)	ARC14-080-1	CA23	747/1 01 AT1 (MATED)	BREF	2348.0470 IN.
				XMRP	1339.9000 IN.
				YMRP	.0000 IN.
				ZMRP	190.7500 IN.
				SCALE	.0125

BETAC	STAB-C	ELV-0	IADRB
-5.000	5.000	5.000	4.000
-5.000	5.000	5.000	6.000
-5.000	5.000	5.000	8.000

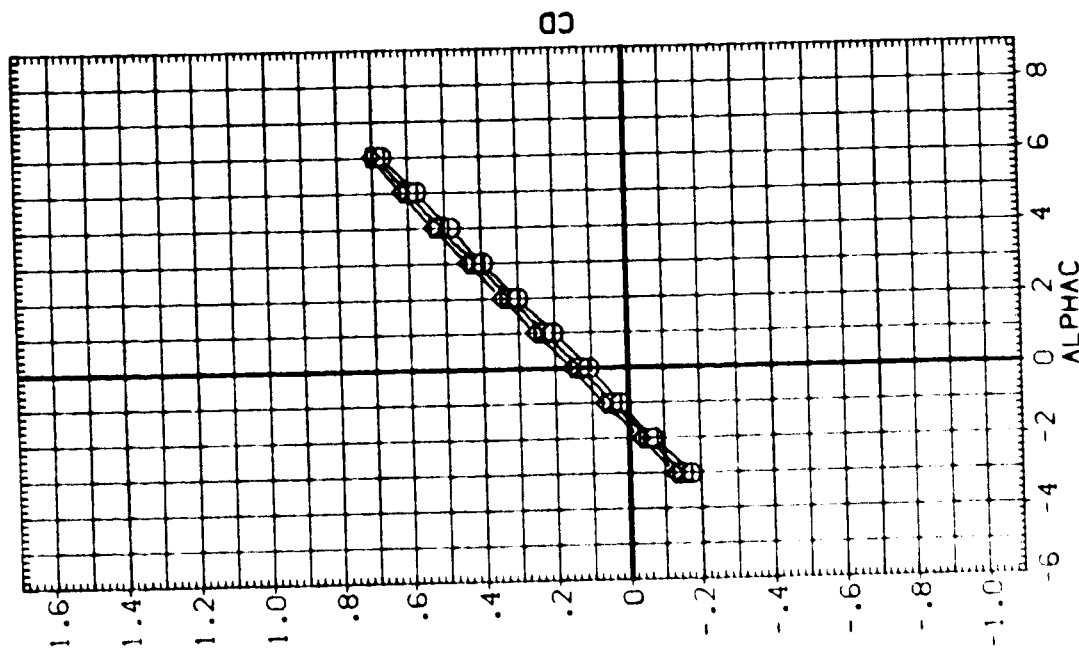
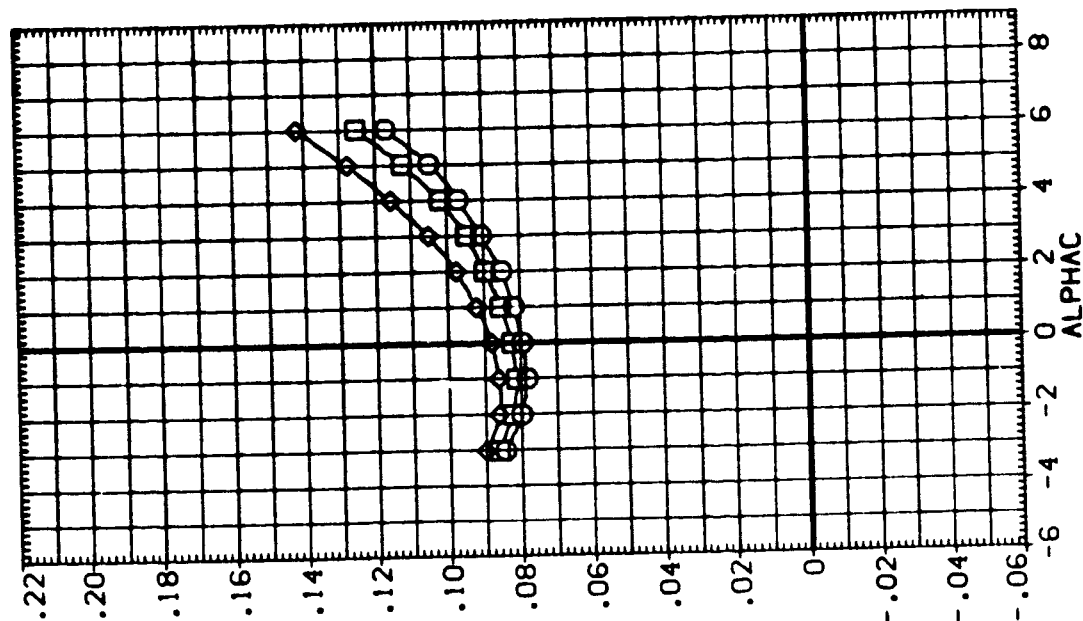


FIG. 10 MATED (ORBITER + CARRIER) AERO CHARACTERISTICS (INTERPOLATED I-OR8)

(A)MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (CE9022) ○ ARC14 080-1 CA23 747/4 01 AT1 (MATED)

RUD-C ELV-0 I-0RB
 .000 5.000 6.000

REFERENCE INFORMATION
 SREF 5500.0000 SO.FT.
 LREF 327.7800 IN.
 BREF 2348.0400 IN.
 XMRP 1339.5000 IN.
 YMRP .0000 IN.
 ZMRP 190.7500 IN.
 SCALE .0125

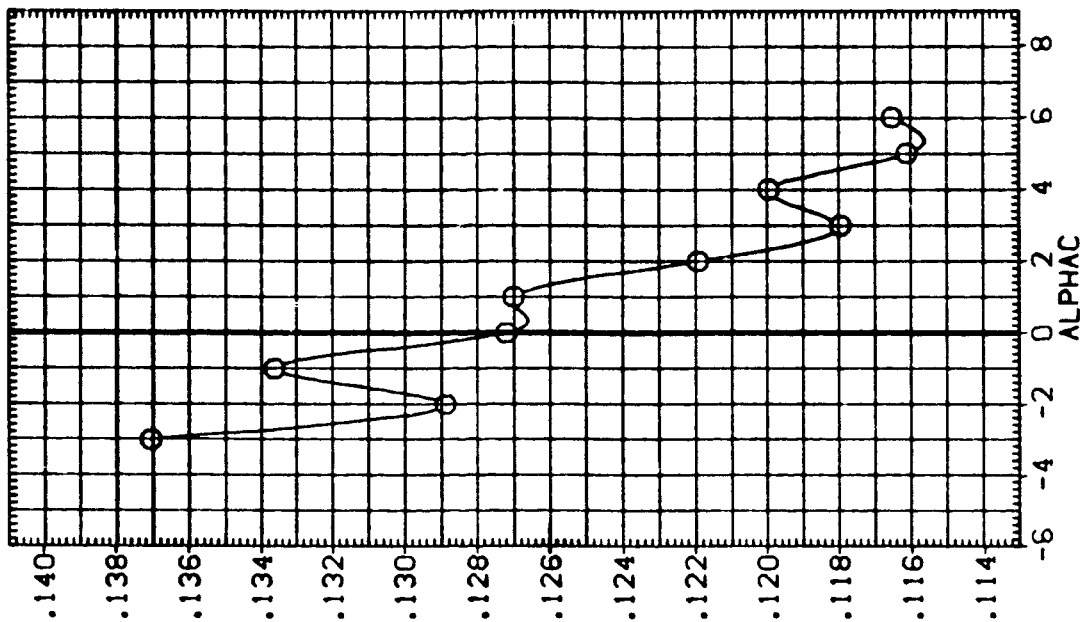
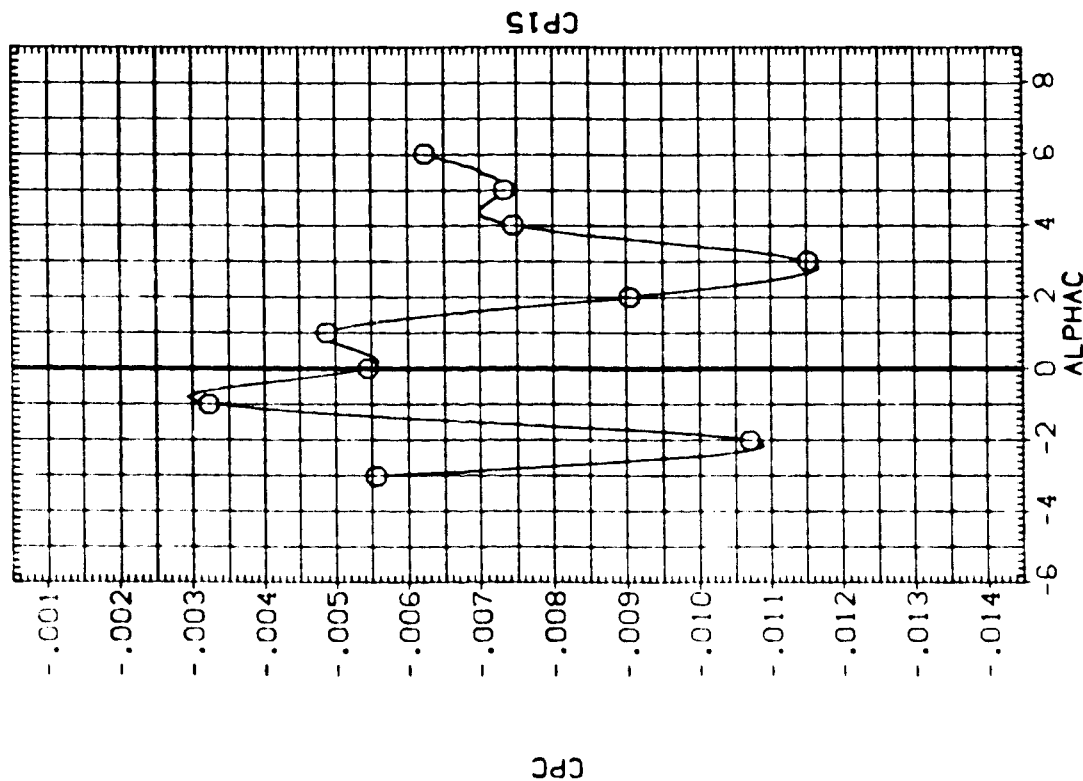


FIG.11 MATED (ORBITER + CARRIER) BASE AND CAVITY PRESSURES

(A)MACH = .60

REPRODUCIBILITY OF THE
 ORIGINAL PAGE IS POOR

REFERENCE INFORMATION

SREF	5500.0000	SO.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.5000	IN.
YMRP	.0000	IN.
ZMRP	190.7500	IN.
SCALE	.0125	

RUD-C ELV-0 I-088
.000 5.000 6.000

DATA SET SYMBOL (E9022) ☐ ARC14-080-1 CA23 747/4 01 ATI (MATED)

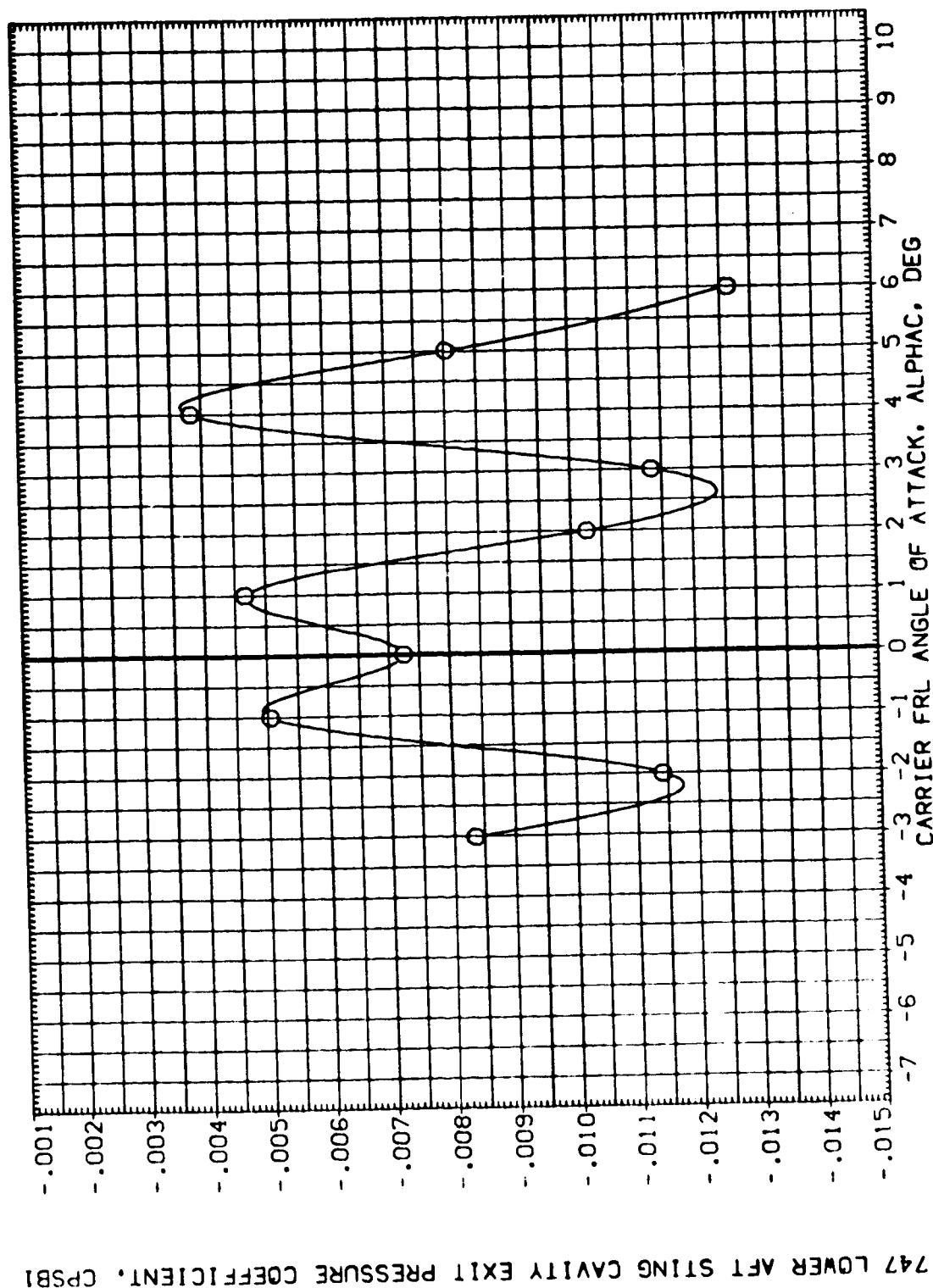


FIG.11 MATED (ORBITER + CARRIER) BASE AND CAVITY PRESSURES

(A)MACH = .60

DATA SET SYMBOL (CE9522) ○

CONFIGURATION DESCRIPTION
ARC: 4-080-1 CA23 747/4 01 AT1 (MATED)

RUD-C ELV-0 1-04-B
.000 5.000 6.000

REFERENCE INFORMATION
SREF 5500.0000 50. FT.
LREF 327.7600 IN.
BREF 2348.0400 IN.
XMRP 1338.8000 IN. MC
YMRP .0000 IN. VC
ZMRP 190.7500 IN. ZC
SCALE .0125

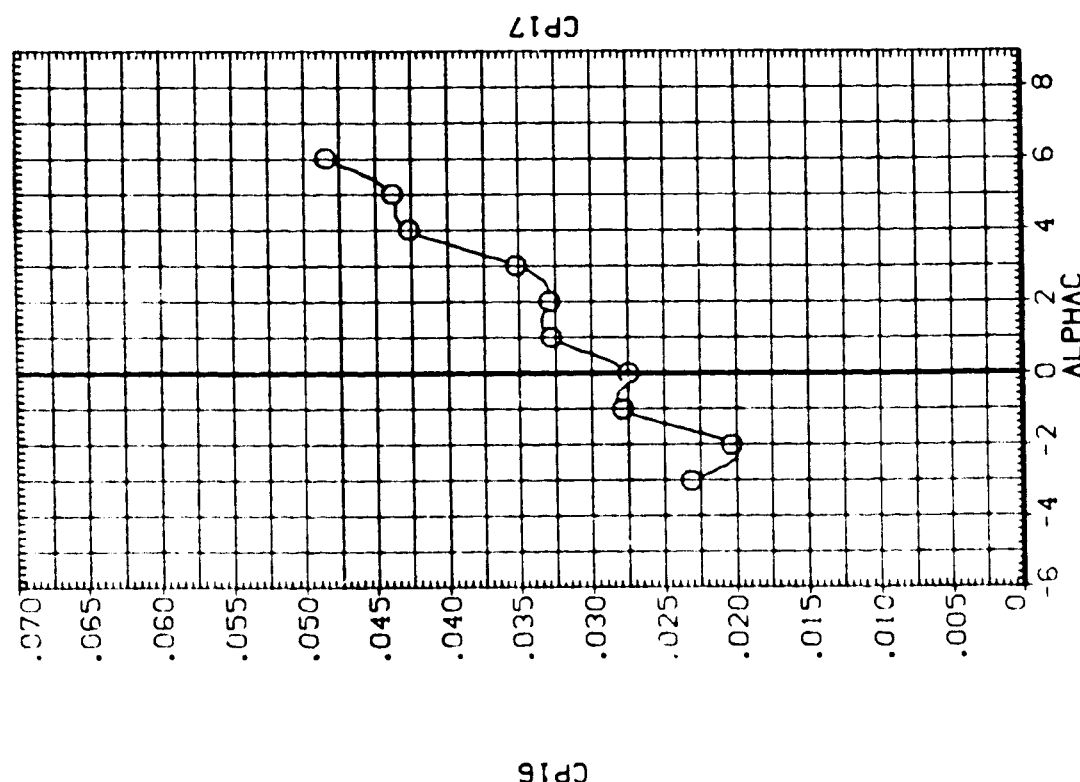
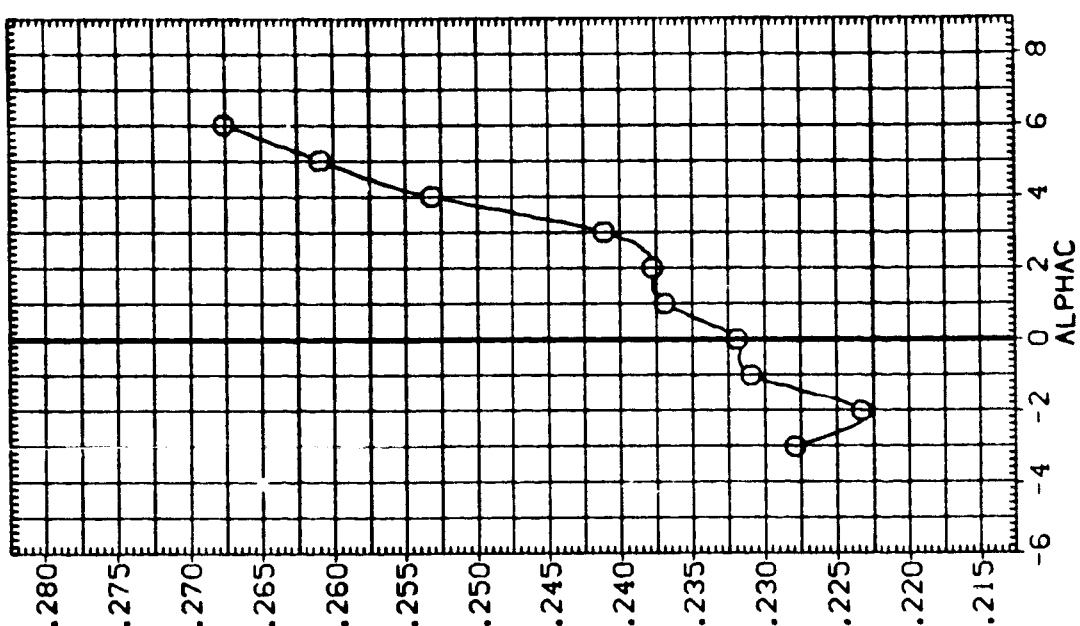


FIG.11 MATED (ORBITER + CARRIER) BASE AND CAVITY PRESSURES
(A)MACH = .60

DATA SET SYMBOL (CE9023) ○ CONFIGURATION DESCRIPTION ARC14-030-1 CA23 747/1 01 AT1 (MATED)

STAB-C 5.000 RUO-C .000 ELV-0 1-068 5.000 6.000
 REFERENCE INFORMATION
 SREF 5500.0000 50. FT.
 LREF 327.7800 IN.
 BREF 2348.0400 IN.
 XMRP 1339.8000 IN. XC
 YMRP .0000 IN. YC
 ZMRP 190.7500 IN. ZC
 SCALE .0125

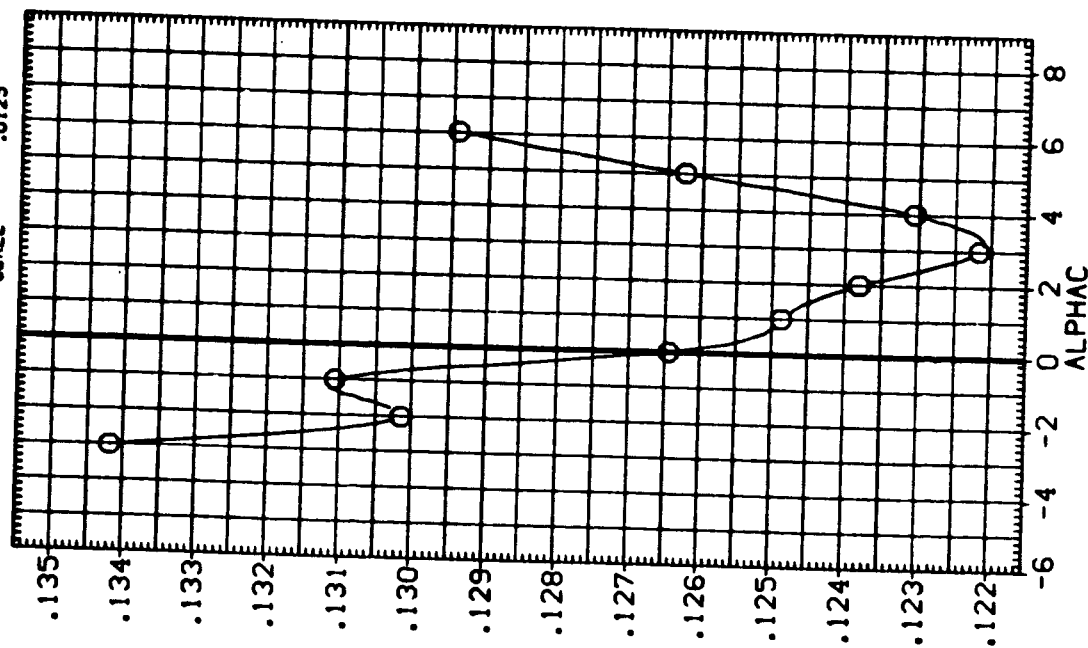
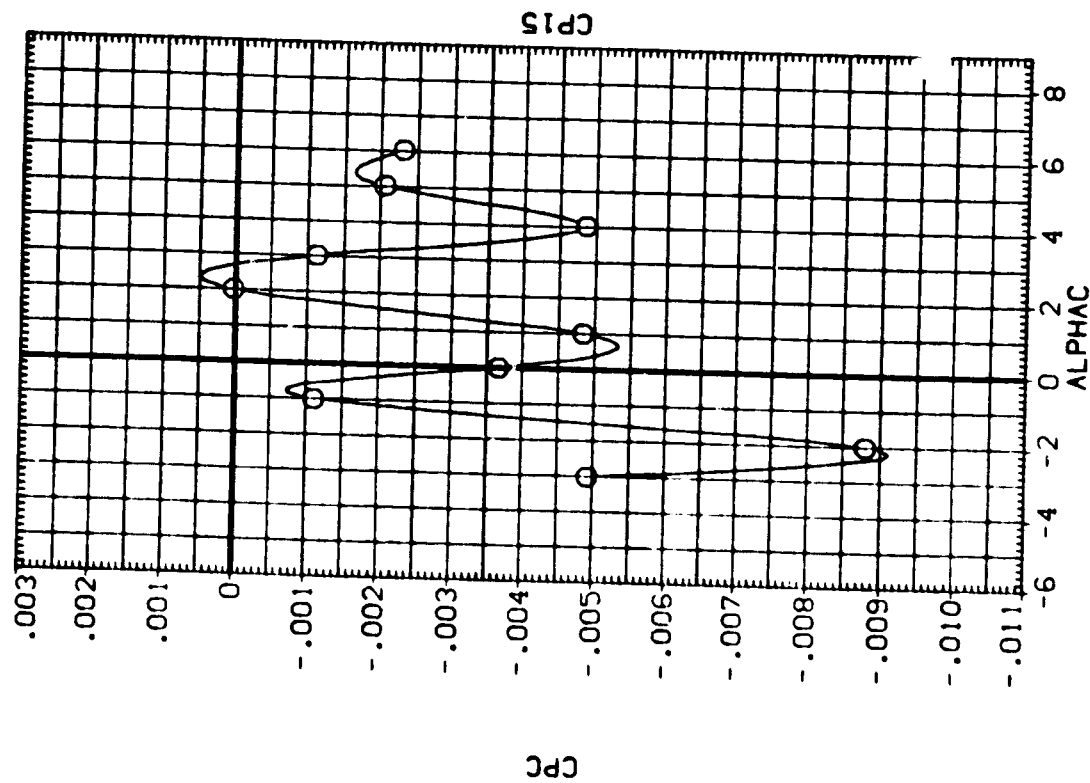


FIG.11 MATED (ORBITER + CARRIER) BASE AND CAVITY PRESSURES
 (A) MACH = .70

DATA SET SYMBOL: \odot CONFIGURATION DESCRIPTION: ARC14-08J-1 CA23 747/1 01 ATL (MATED)

STAB-C 5.000 RUO-C .000 ELV-0 5.000 I-ORB 6.000

REFERENCE INFORMATION
SREF 5500.0000 SQ.FT.
LREF 327.7800 IN.
BREF 2348.0400 IN.
XMRP 1339.9000 IN. XC
YMRP .0000 IN. YC
ZMRP 190.7500 IN. ZC
SCALE .0125

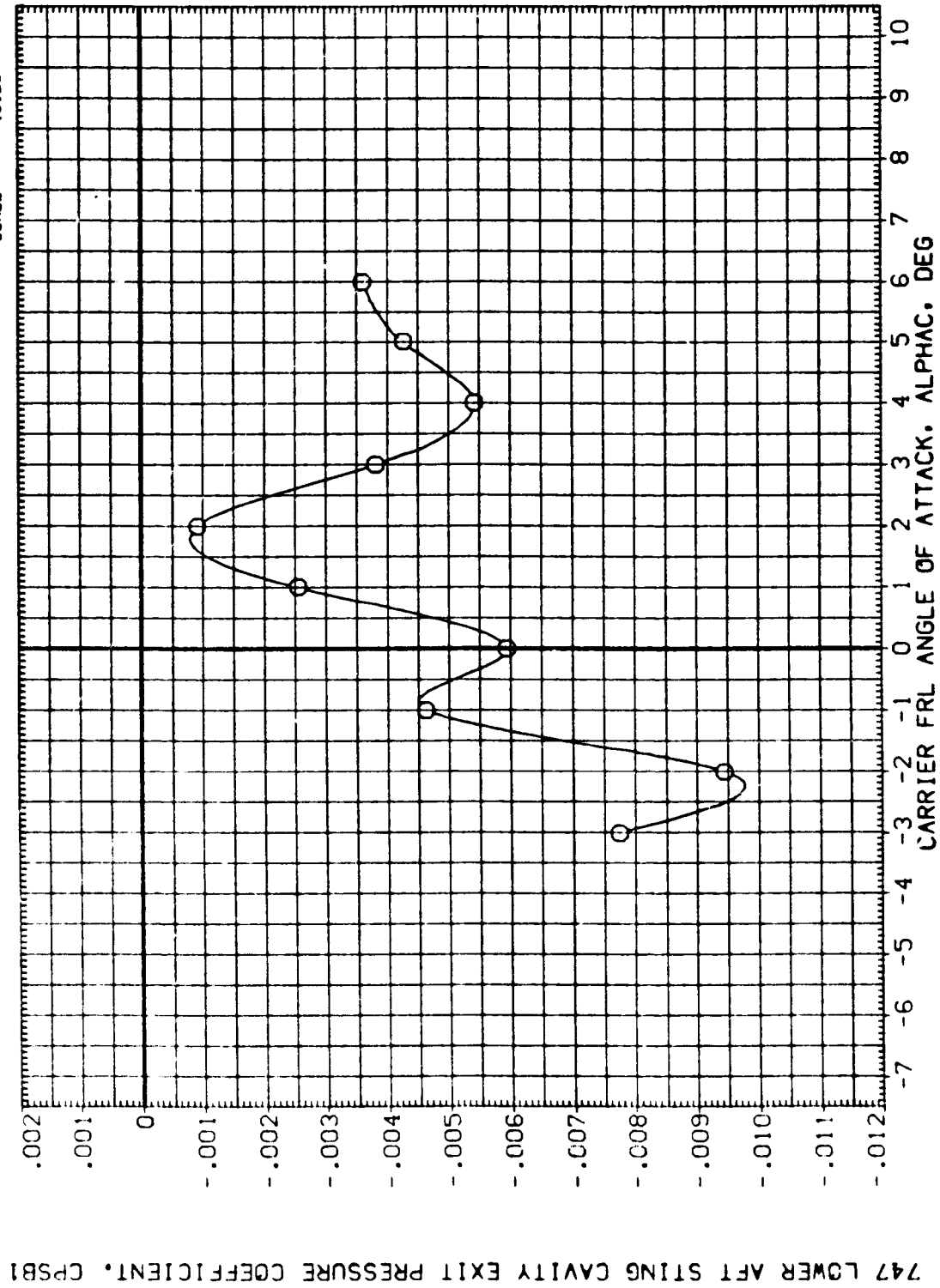


FIG.11 MATED (ORBITER + CARRIER) BASE AND CAVITY PRESSURES

(A)MACH = .70

DATA SET SYMBOL (CE9023) ○ ARC14-080-1 CA23 747/1 01 AT1 (MATED)

STAB-C 5.000 RUO-C .000 ELV-0 5.000 I-080 6.000

REFERENCE INFORMATION
 SREF 5500.0000 SQ.FT.
 LREF 327.7800 IN.
 BREF 2348.0400 IN.
 XMRP 1339.9000 IN.
 YMRP .0000 IN.
 ZMRP 190.7500 IN.
 SCALE .0125

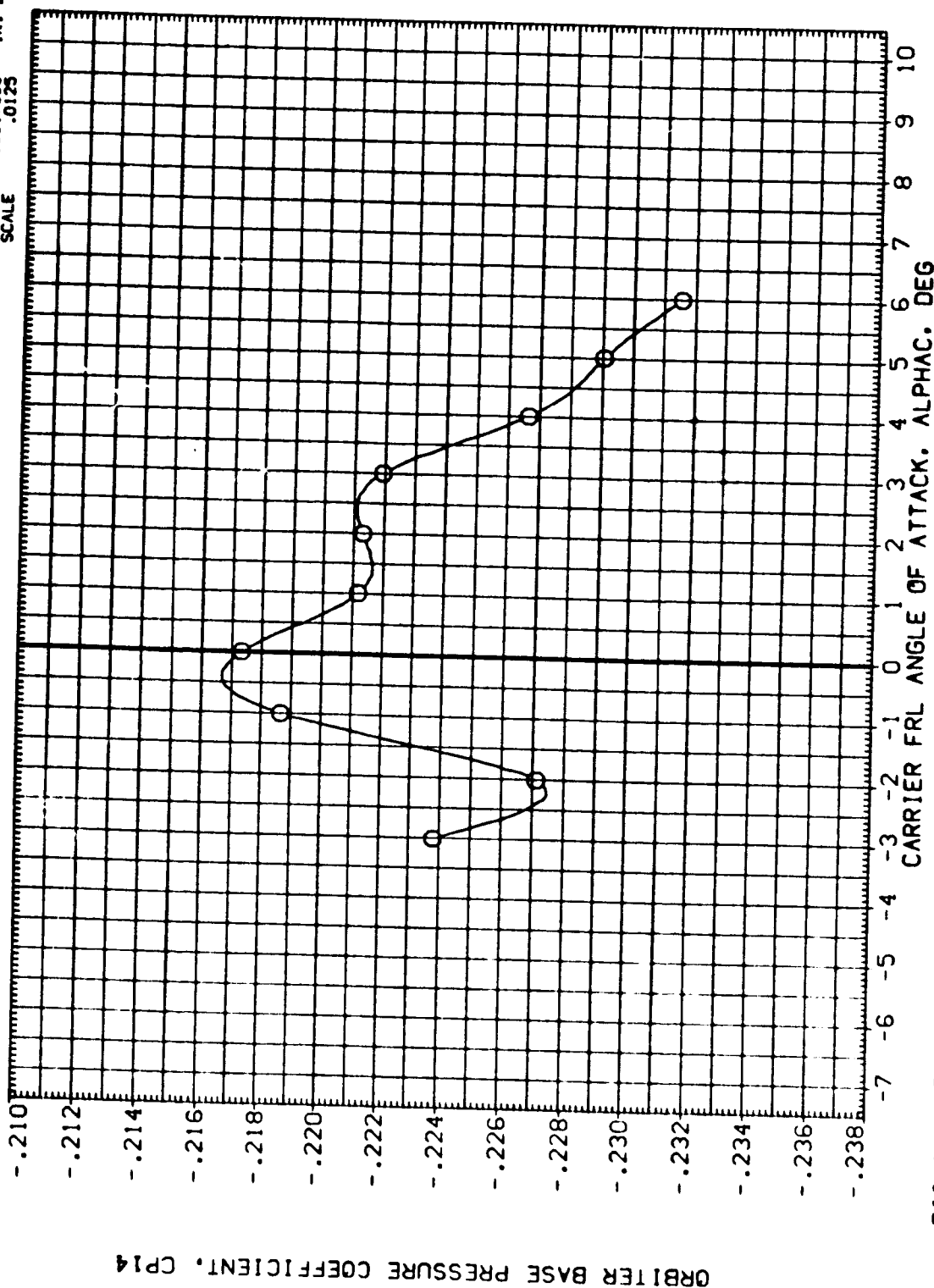


FIG.11 MATED (ORBITER + CARRIER) BASE AND CAVITY PRESSURES

(A)MACH = .70

747 MIDDLE TOP STING CAVITY PRESSURE COEFFICIENT, CP16

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	STAB-C	RUD-C	ELV-0	I-ORB	REFERENCE INFORMATION
059023	ARC14-080-1 CA23 747/1 01 ATI (MATED)	5.000	.000	5.000	6.000	SREF 5500.0000 SQ.FT.
						LREF 327.7800 IN.
						BREF 2348.0400 IN.
						XMRP 1339.8000 IN. KC
						YMRP .0000 IN. YC
						ZMRP 190.7500 IN. ZC
						SCALE .0125

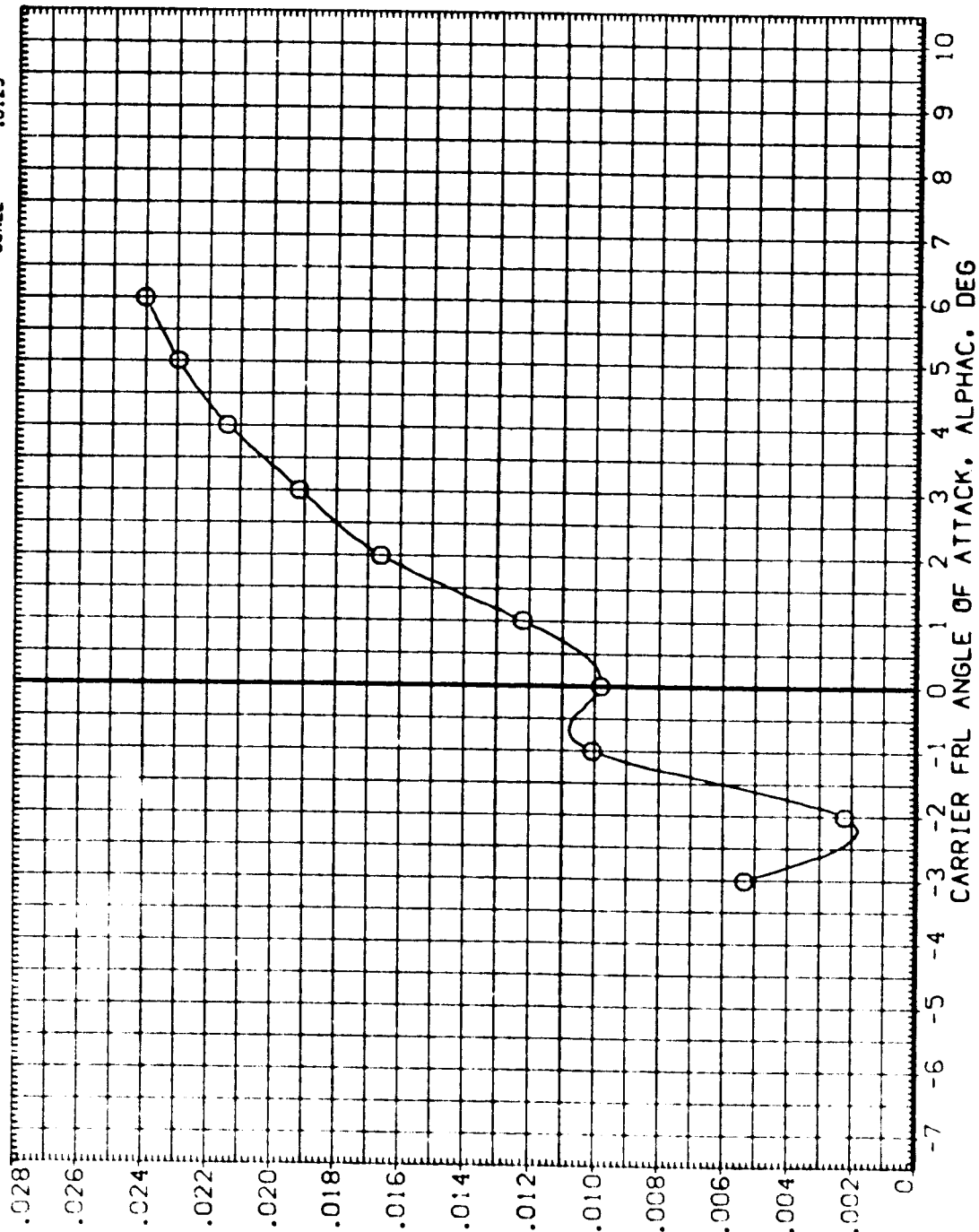


FIG.11 MATED (ORBITER + CARRIER) BASE AND CAVITY PRESSURES

(A) MACH = .70

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(CE9047) ARC14-080-1 CA23 747/1 01 AT1 (MATED)

(CE9024) ARC14-080-1 CA23 747/1 01 AT1 (MATED)

(CE9037) ARC14-080-1 CA23 747/1 01 AT1 (MATED)

STAB-C RUO-C ELV-0 I-088

5.000 .000 5.000 4.000

5.000 .000 5.000 6.000

5.000 .000 5.000 8.000

REFERENCE INFORMATION

SREF 5500.0000 SQ. FT.

LREF 327.7800 IN.

BREF 2348.0400 IN.

XMRP 1339.8000 IN.

YMRP 190.7500 IN.

ZMRP 190.7500 IN.

SCALE .0125

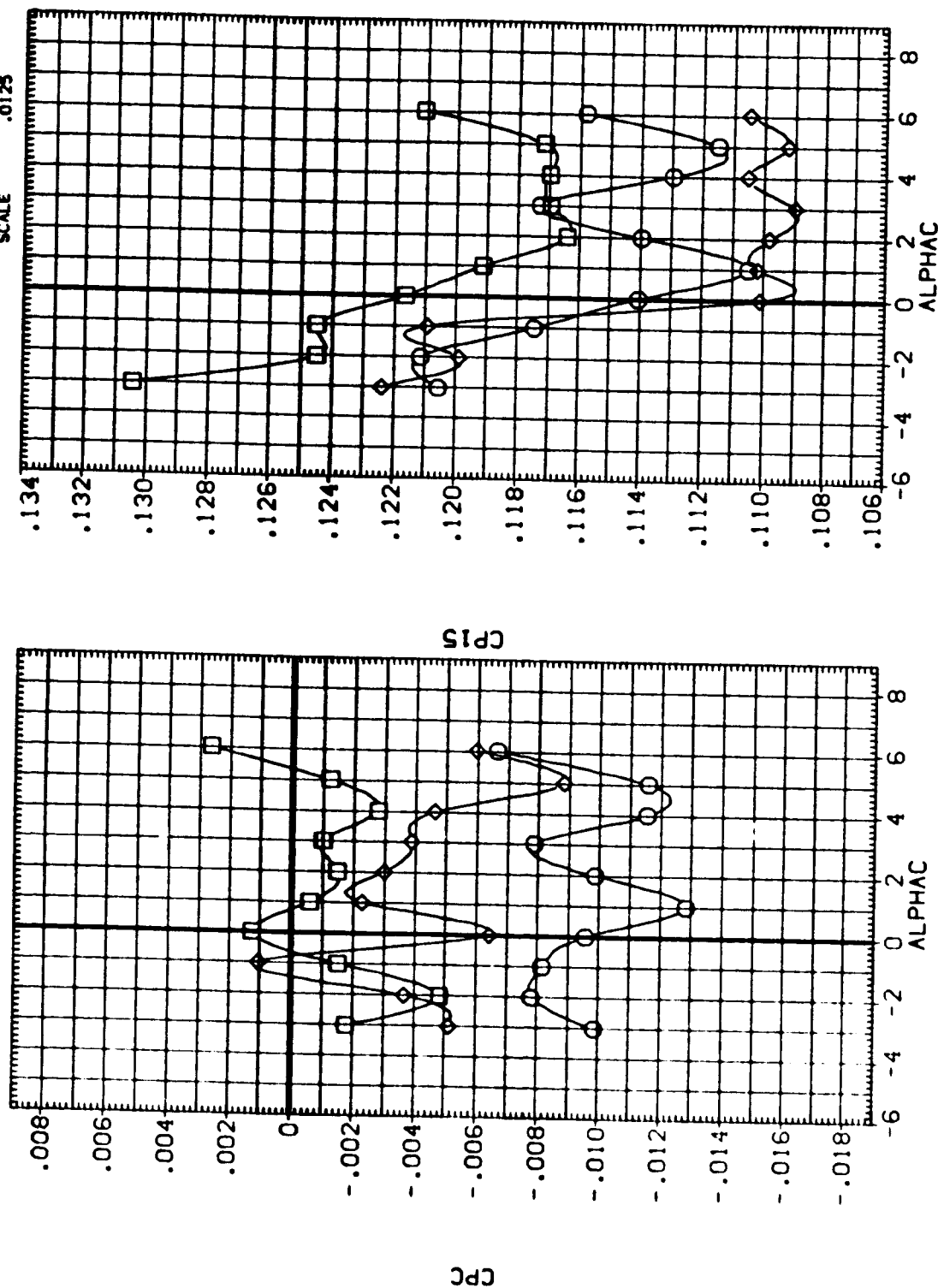


FIG.11 MATED (ORBITER + CARRIER) BASE AND CAVITY PRESSURES

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	STAB-C	RUD-C	ELV-0	I-ORB	REFERENCE INFORMATION
02-047	ARC14-080-1 CA23 747/1 01 ATI (MATED)	5.000	.000	5.000	4.000	SREF 5500.0000 SQ.FT.
02-024	ARC14-080-1 CA23 747/1 01 ATI (MATED)	5.000	.000	5.000	6.000	LREF 327.7800 IN.
02-033	ARC14-080-1 CA23 747/1 01 ATI (MATED)	5.000	.000	5.000	8.000	BREF 2348.0400 IN.
						XMRP 1339.9000 IN. XC
						YMRP .0000 IN. YC
						ZMRP 190.7500 IN. ZC
						SCALE .0125

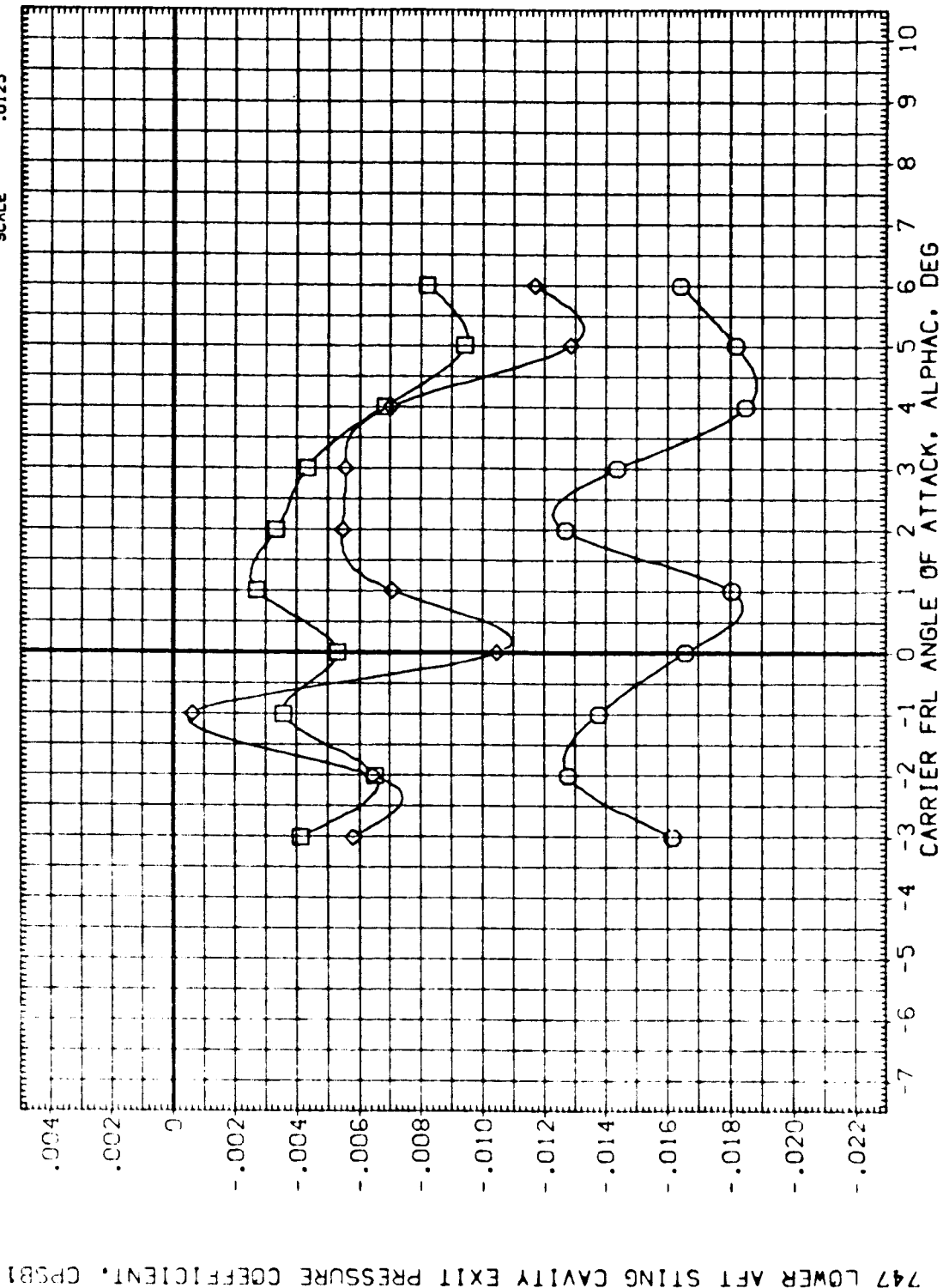


FIG.11 MATED (ORBITER + CARRIER) BASE AND CAVITY PRESSURES

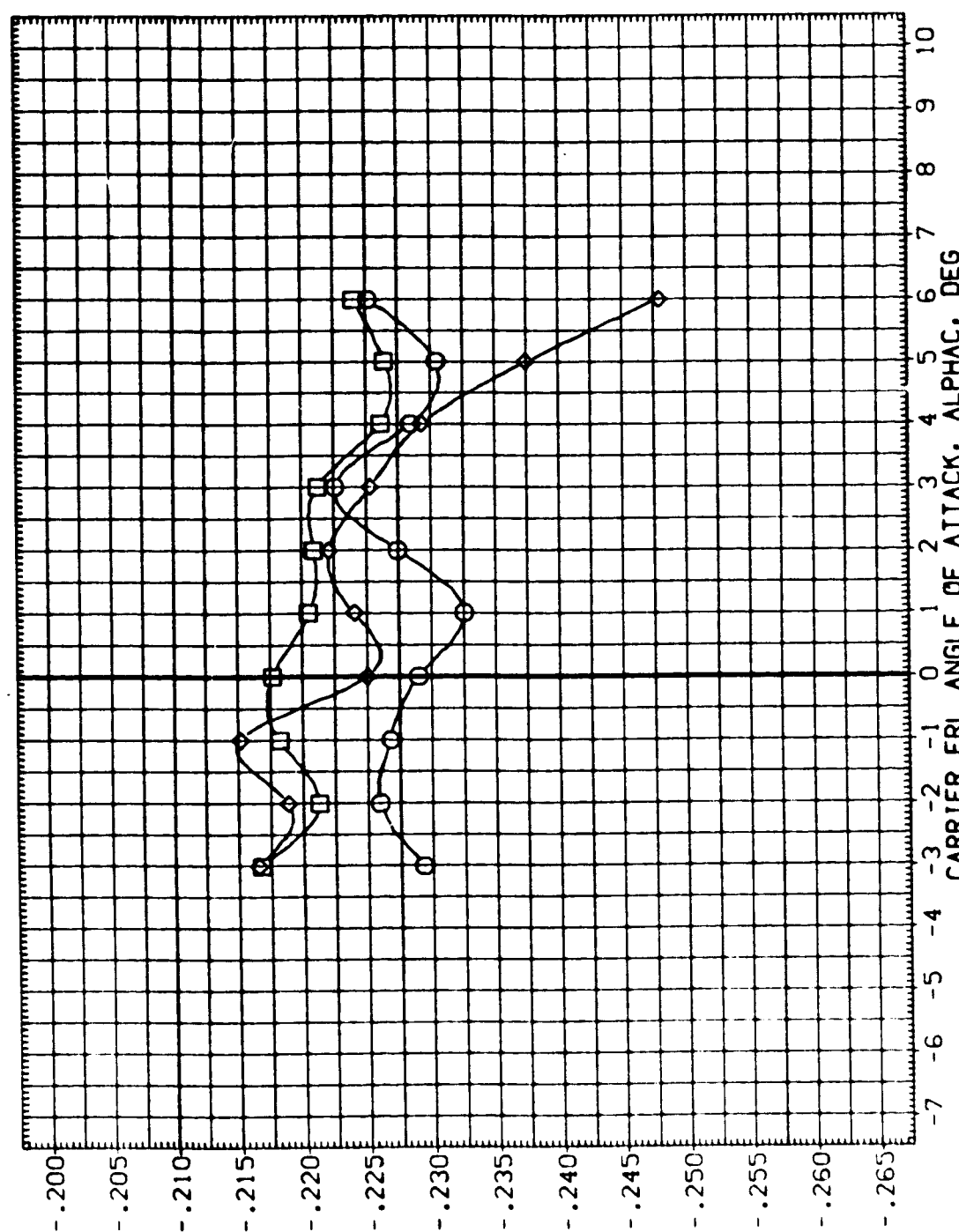
(A)MACH = .60

DATA SET SYMBOL
(CE9047)
(CE9024)
(CE9037)

CONFIGURATION DESCRIPTION
ARC14-080-1 CA23 747/1 01 ATI (MATED)
ARC14-080-1 CA23 747/1 01 ATI (MATED)
ARC14-080-1 CA23 747/1 01 ATI (MATED)

STAB-C RUD-C ELV-0 I-ORB

REFERENCE INFORMATION
SREF 5500.0000 50.FT.
LREF 327.7600 IN.
BREF 2348.0400 IN.
XMRP 1339.9000 IN. XC
YMRP .0000 IN. YC
ZMRP 190.7500 IN. ZC
SCALE .0125



ORBITER BASE PRESSURE COEFFICIENT, CP14

FIG.11 MATED (ORBITER + CARRIER) BASE AND CAVITY PRESSURES

(A) MACH = .60

STAB-C	RUD-C	ELV-0	I-ORB	REFERENCE INFORMATION			
5.000	.000	5.000	4.000	SREF	5500.0000	SO.FT.	
5.000	.000	5.000	6.000	LREF	327.7800	IN.	
5.000	.000	5.000	8.000	BREF	2348.0400	IN.	IC
				YMRP	1339.9000	IN.	YC
				ZMRP	190.7500	IN.	ZC
				SCALE	.0125		

DATA SET	SYMBOL	DESCRIPTION
0001	01	AT1 (MATED)
0002	01	AT1 (MATED)
0003	01	AT1 (MATED)
0004	01	AT1 (MATED)
0005	01	AT1 (MATED)

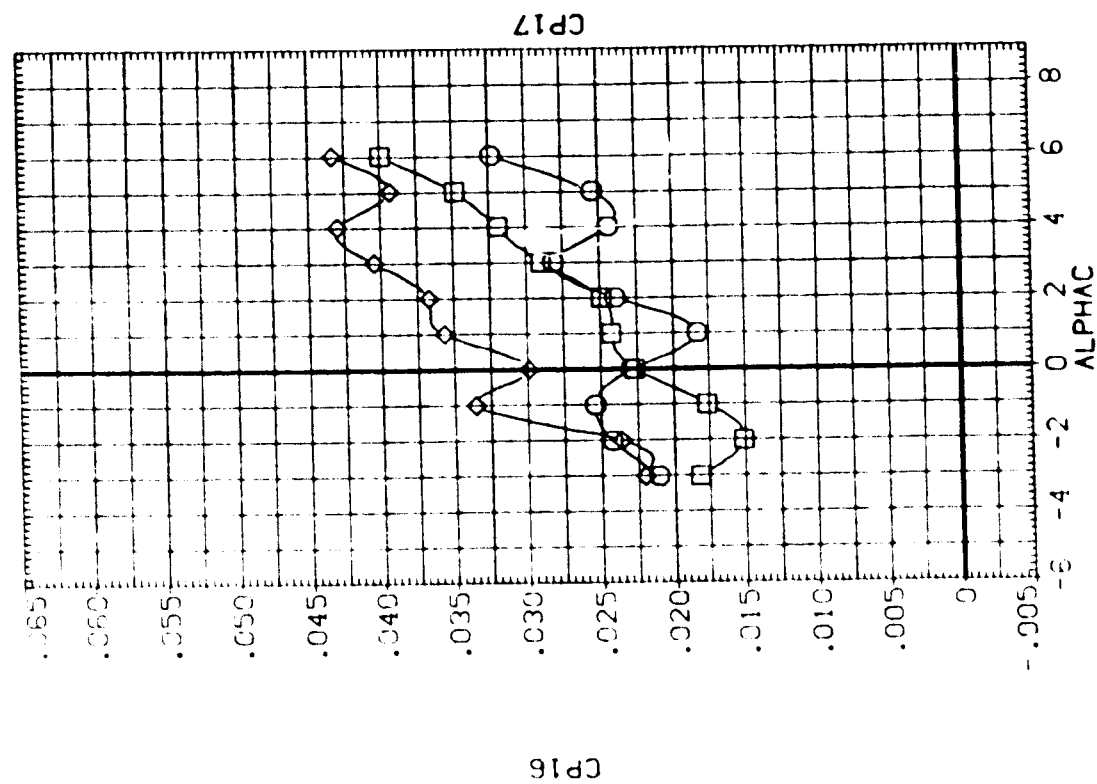
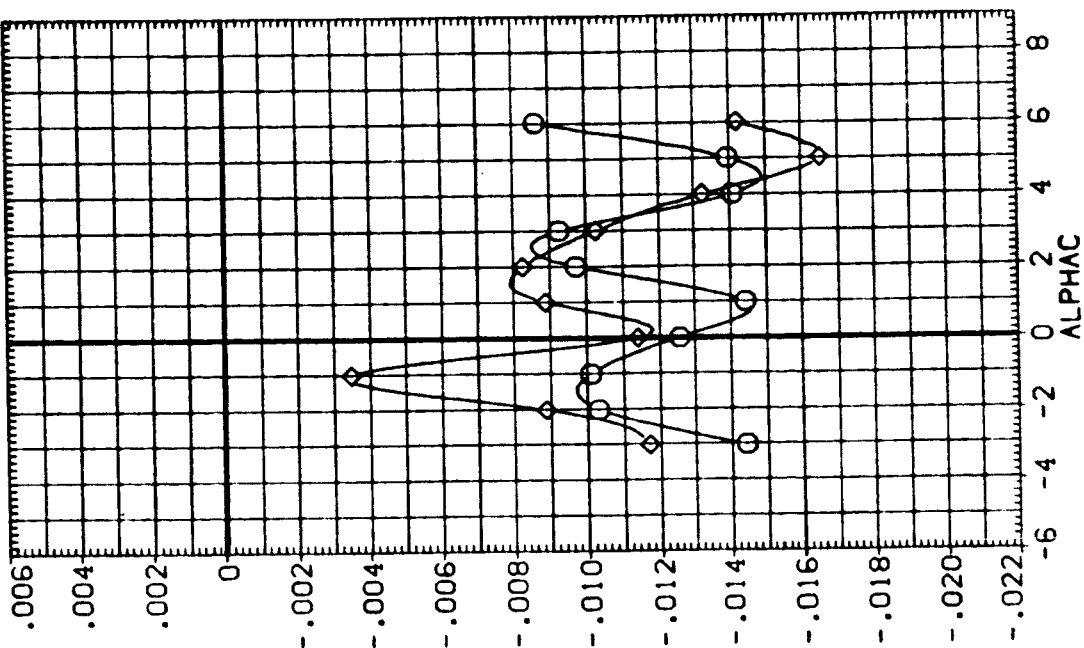


FIG. 11 MATED (ORBITER + CARRIER) BASE AND CAVITY PRESSURES

(A) MACH = .60

DATA SET SYMBOL (CE9025) ○ CONFIGURATION DESCRIPTION ARC14-080-1 CA23 747/1 01 ATI (MATED)

STAB-C 5.000 RUD-C .000 ELV-0 5.000 1-0R8 6.000

REFERENCE INFORMATION
 SREF 5500.0000 50.FT.
 LREF 327.7800 IN.
 BREF 2348.0400 IN. BC
 XMRP 1339.8000 IN. VC
 YMRP .0000 IN. VC
 ZMRP 190.7500 IN. XC
 SCALE .0125

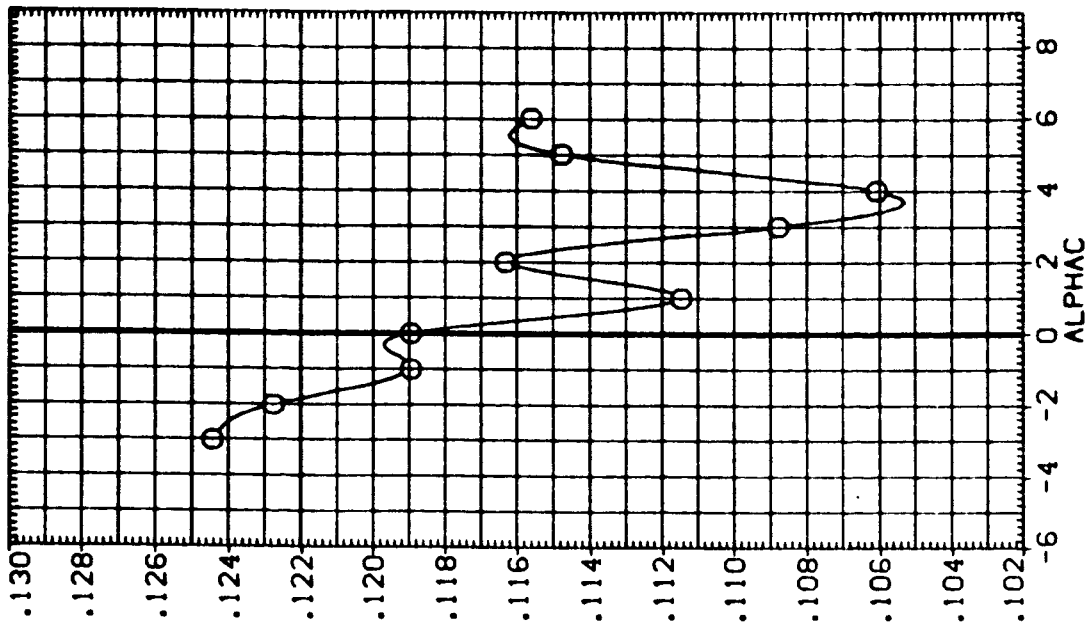
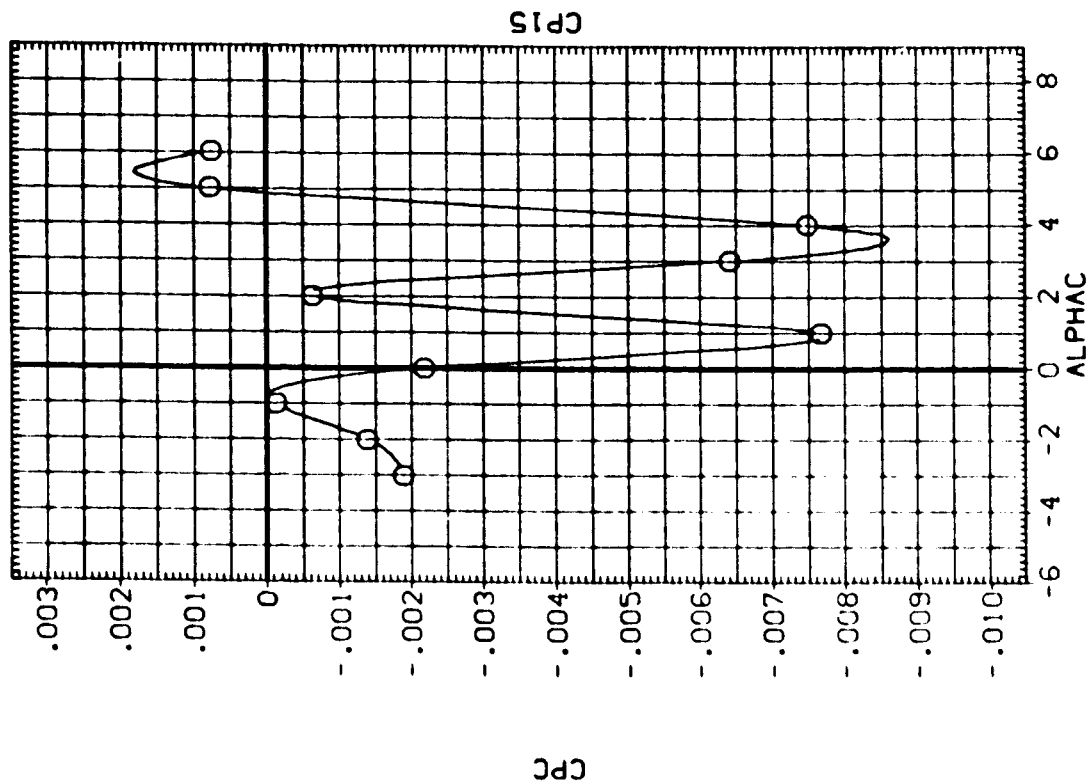


FIG.11 MATED (ORBITER + CARRIER) BASE AND CAVITY PRESSURES

(A) MACH = .50

DATA SET SYMBOL (CE925) ○ CONFIGURATION DESCRIPTION ARC14-080-1 CA23 747/1 01 AT1 (MATED) STAB-C 5.000 RUO-C .000 ELV-0 5.000 I-ORB 6.000 REFERENCE INFORMATION SREF 5500.0000 50.FT. LREF 327.7800 IN. BREF 2348.0400 IN. XC XMRP 1339.5000 IN. YC YMRP .0000 IN. ZC ZMRP 190.7500 IN. SCALE .0125

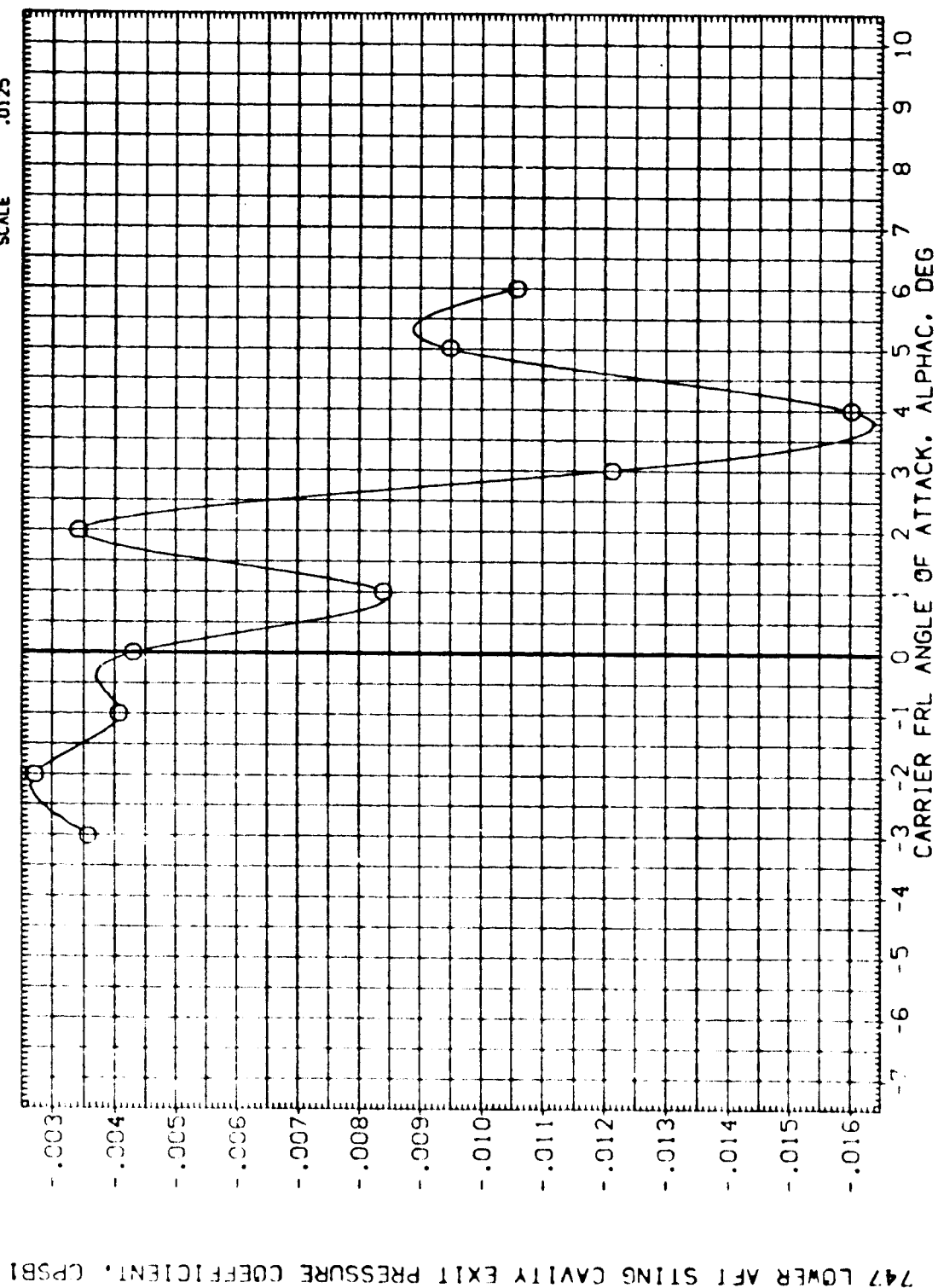


FIG.11 MATED (ORBITER + CARRIER) BASE AND CAVITY PRESSURES

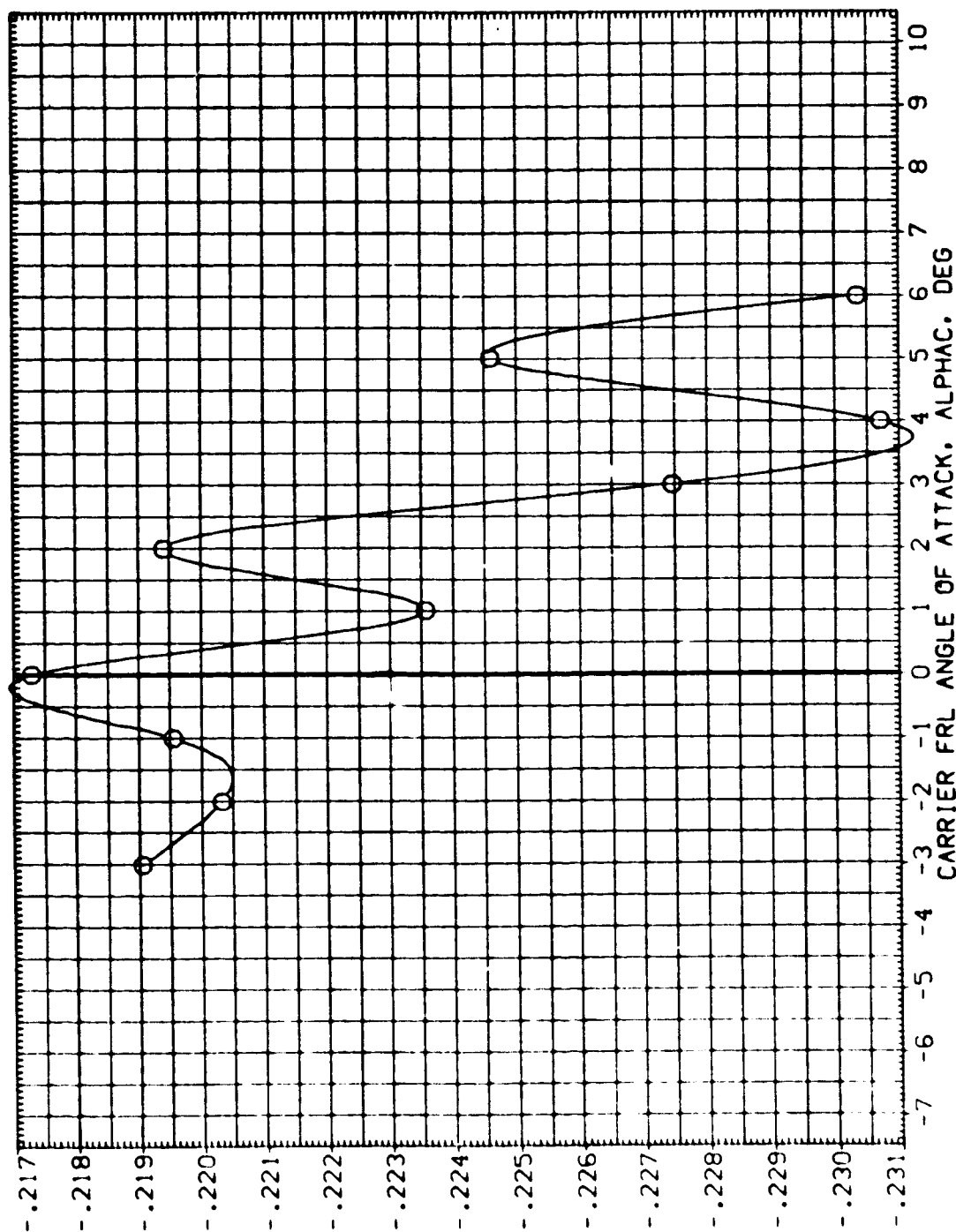
(A)MACH = .50

DATA SET SYMBOL (CE9025) ○

CONFIGURATION DESCRIPTION
ARC14-080-1 CA23 747/1 01 AT1 (MATED)

REFERENCE INFORMATION
SREF 5500.0000 SQ.FT.
LREF 327.7800 IN.
BREF 2348.0400 IN.
YMRP 1339.9000 IN. MC
ZMRP 190.7500 IN. VC
SCALE .0125

STAB-C 5.000 ELV-0 5.000 I-ORB 6.000



ORBITER BASE PRESSURE COEFFICIENT, CP14

FIG.11 MATED (ORBITER + CARRIER) BASE AND CAVITY PRESSURES

(A)MACH = .50

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (03305) ○ ARCTA 08C-1 CA23 747/1 01 AT1 (MATED)

STAB-C RUD-C ELV-0 I-ORB

5.000 .000 5.000 6.000

REFERENCE INFORMATION

SREF 5500.0000 SQ.FT.
 LBREF 327.7800 IN.
 BRREF 2348.0400 IN. XC
 YMRP 1339.9000 IN. YC
 ZMRP 190.7500 IN. ZC
 SCALE .0125

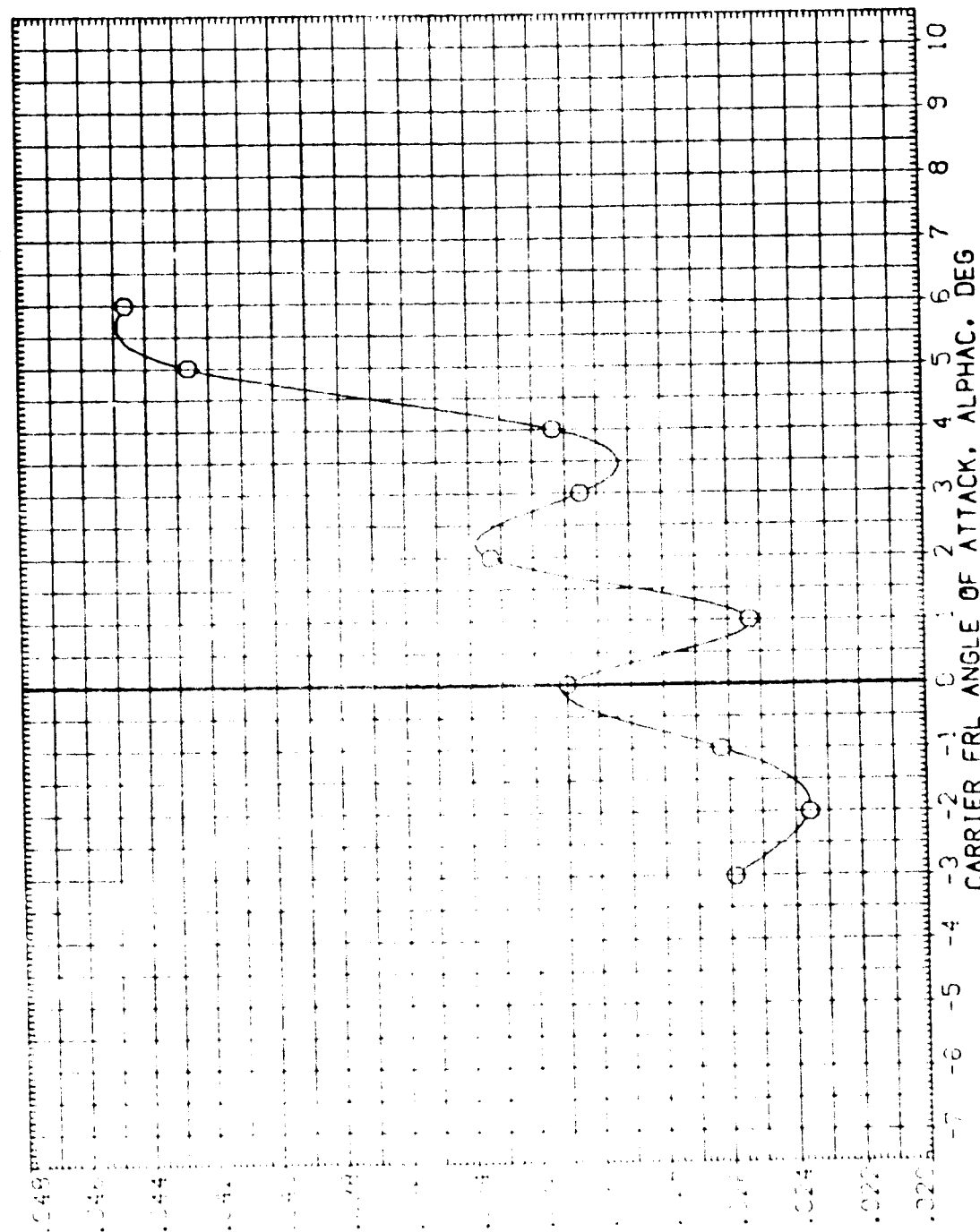


FIG. 11 MATED (ORBITER + CARRIER) BASE AND CAVITY PRESSURES

(A)MACH = .50

REPRODUCIBILITY OF THIS
 ORIGINAL PAGE IS POOR

DATA SET SYMBOL (C9026) ○ ARC14-080-1 CA23 747/1 01 A11 (MATED)

CONFIGURATION DESCRIPTION

STAB-C RUO-C ELV-B I-OR8
5.000 .000 5.000 6.000

REFERENCE INFORMATION
SREF 5500.0000 SQ.FT.
LREF 327.7800 IN.
BREF 2348.0400 IN.
XMRP 1339.9000 IN. XC
YMRP .0000 IN. YC
ZMRP 190.7500 IN. ZC
SCALE .0125

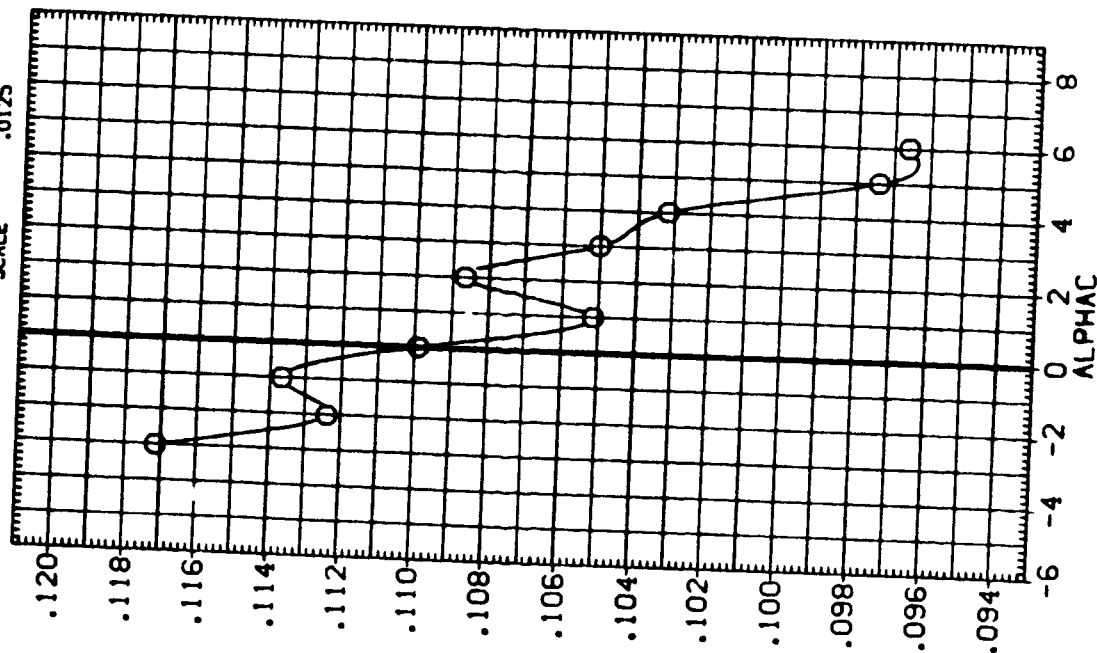
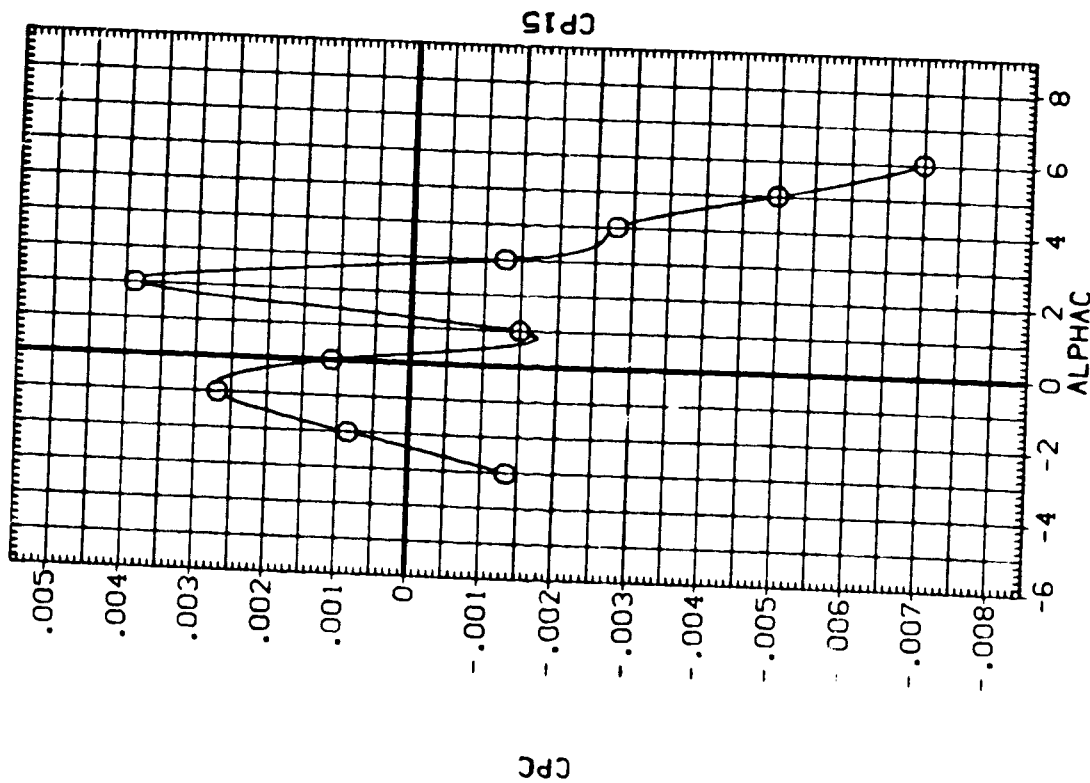


FIG.11 MATED (ORBITER + CARRIER) BASE AND CAVITY PRESSURES
(A) MACH = .30

DATA SET SYMBOL: 747 LOWER AFT STING CAVITY EXIT PRESSURE COEFFICIENT, CP SR1
 COM. LOCATION DESCRIPTION: ARC11 083-1 CA23 747/1 01 AT1 (MATED)

STAB-C 5.000 RUO-C .000 ELV-B 1-088

REFERENCE INFORMATION

SREF 5500.0000 SQ. FT.
 LREF 327.7800 IN.
 BREF 2348.0400 IN.
 XMRP 1339.9000 IN. XC
 YMRP .0000 IN. YC
 ZMRP 190.7500 IN. ZC
 SCALE .0125

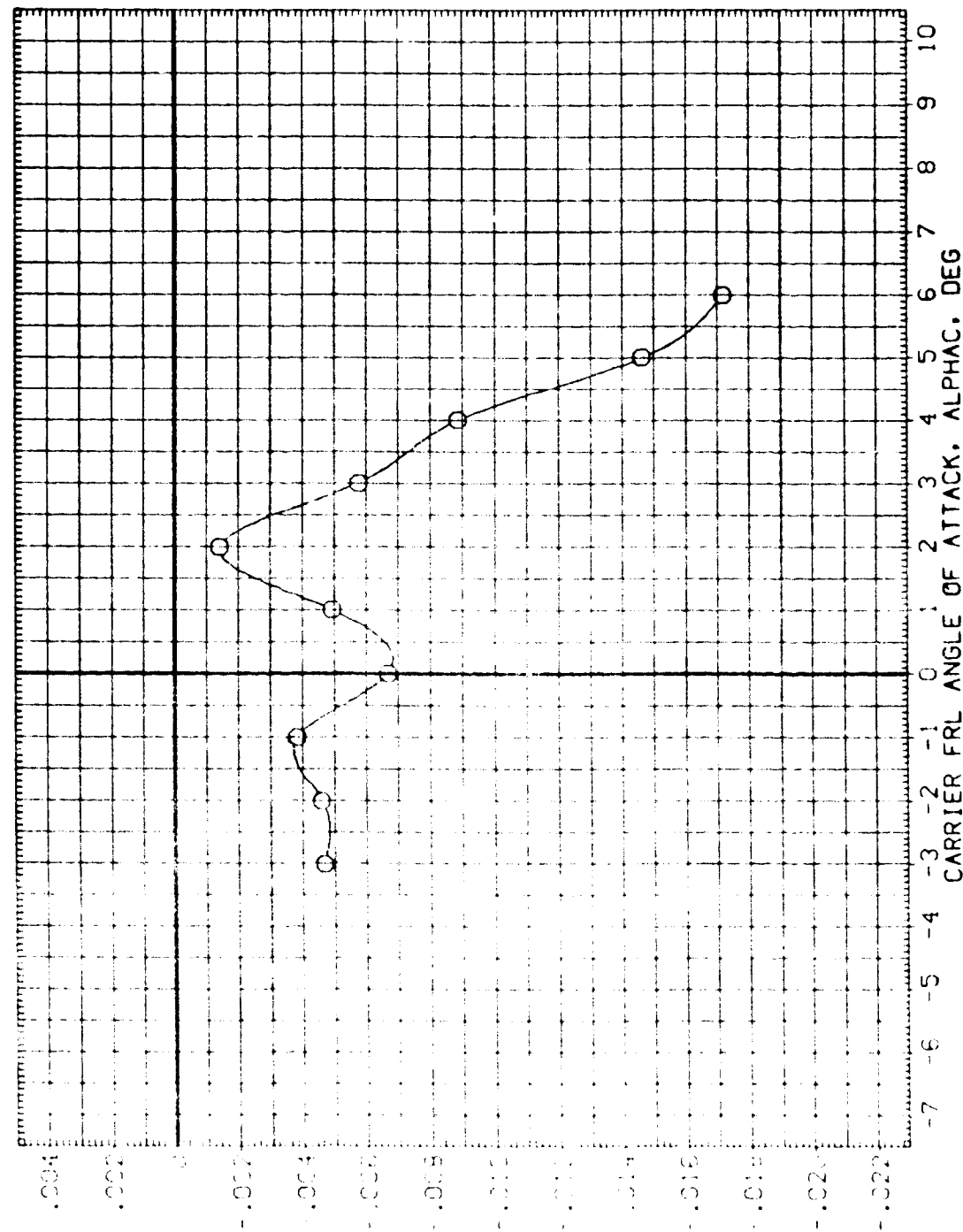


FIG.11 MATED (ORBITER + CARRIER) BASE AND CAVITY PRESSURES

(M)MACH = .30

DATA SET SYMBOL (CE9026) ○ CONFIGURATION DESCRIPTION ARC14-080-1 CA23 747/1 01 AT1 (MATED)

REFERENCE INFORMATION	
SREF	5500.0000 SO.FT.
LREF	327.7800 IN.
BREF	2348.0400 IN.
XMRP	1339.9000 IN. MC
YMRP	.0000 IN. VC
ZMRP	190.7500 IN. ZC
SCALE	.0125

STAB-C 5.000 ELV-O 5.000 I-ORB 6.000

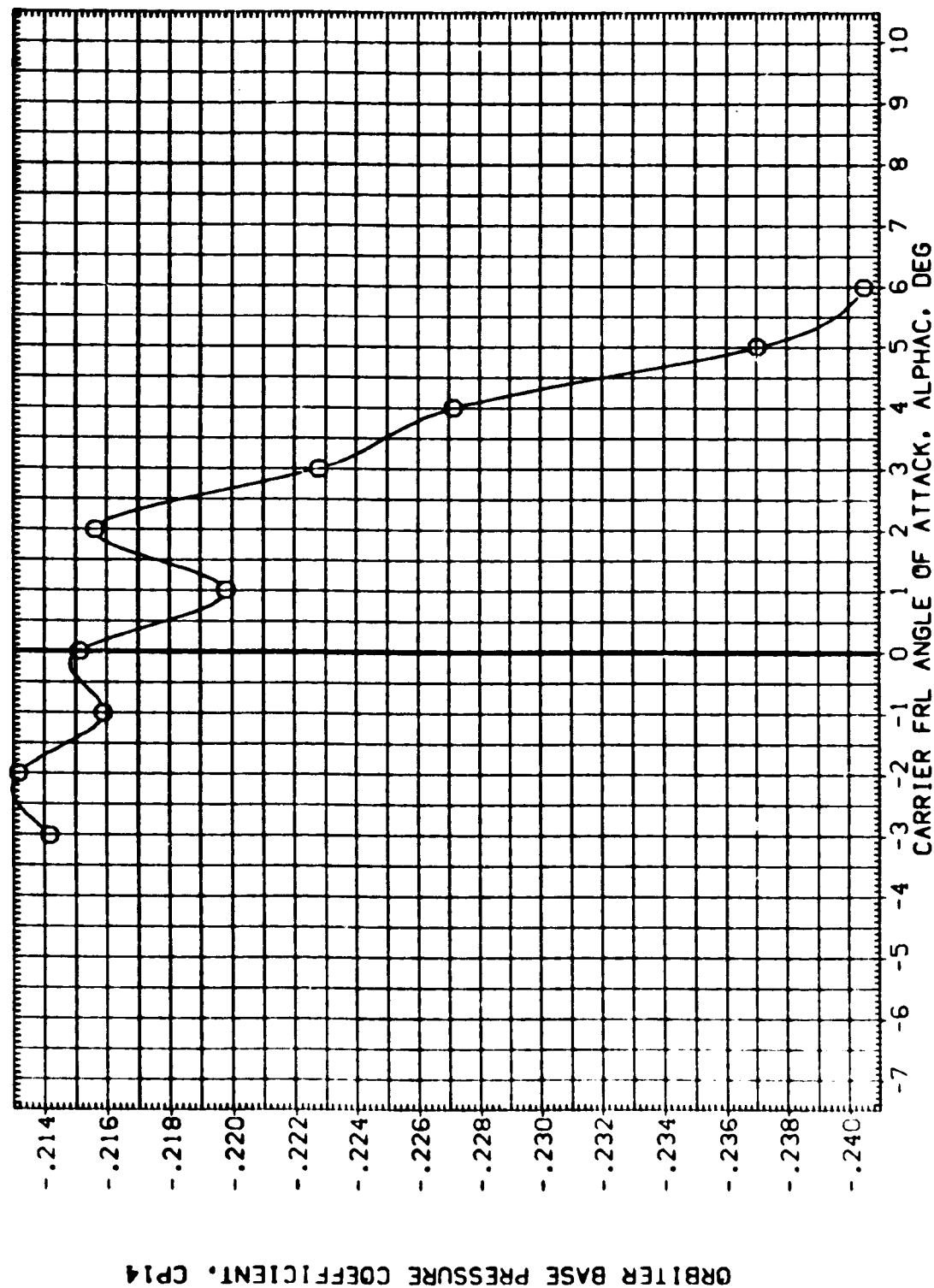


FIG.11 MATED (ORBITER + CARRIER) BASE AND CAVITY PRESSURES

(A)MACH = .30

DATA SET SYMBOL: 01
 CONFIGURATION DESCRIPTION: AR24-085-1 CA23 747/1 01 ATI (MATED)
 REFERENCE INFORMATION:
 SREF 5500.0000 SQ.FT.
 LREF 327.7800 IN.
 BREF 2348.0400 IN.
 XMRP 1339.5000 IN. XC
 YMRP .0000 IN. YC
 ZMRP 190.7500 IN. ZC
 SCALE .0125

STAB-C 5.000
 RUO-C .000
 ELV-B 5.000
 I-ORB 6.000

747 MIDDLE TOP STRING CAVITY PRESSURE COEFFICIENT, CP16

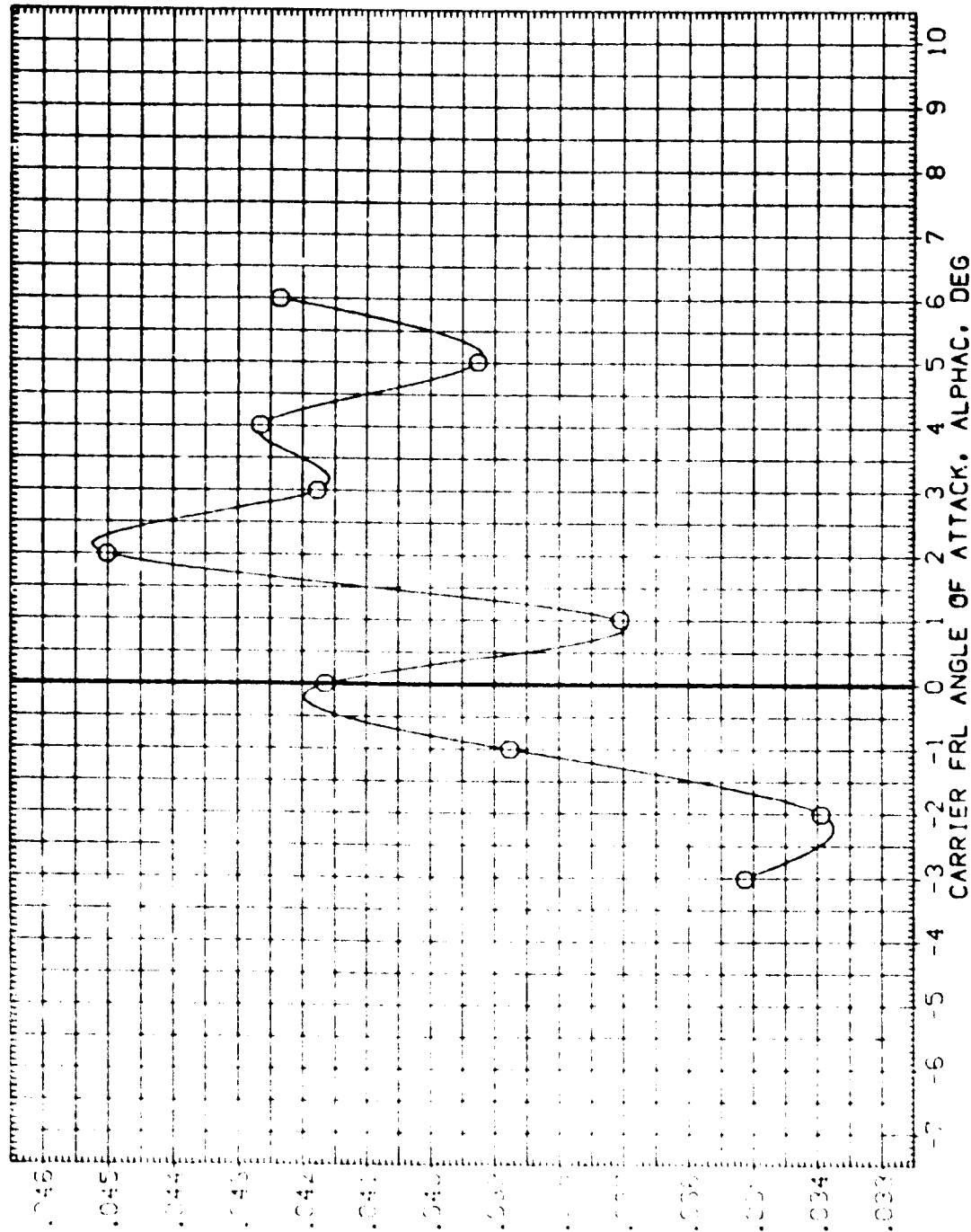


FIG.11 MATED (ORBITER + CARRIER) BASE AND CAVITY PRESSURES

(A)MACH = .30

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	STAB-C	RUD-C	ELV-0	I-ORB	REFERENCE INFORMATION
(CE9049)	ARC14-080-1 CA23 747/1 01 AT1 (MATED)	5.000	10.000	5.000	4.000	SREF 5500.0000 50. FT.
(CE9027)	ARC14-080-1 CA23 747/1 01 AT1 (MATED)	5.000	10.000	5.000	6.000	LREF 327.7800 IN.
(CE9038)	ARC14-080-1 CA23 747/1 01 AT1 (MATED)	5.000	10.000	5.000	8.000	BREF 2348.0400 IN.
						XMRP 1339.5000 IN.
						YMRP .0000 IN.
						ZMRP 190.7500 IN.
						SCALE .0125

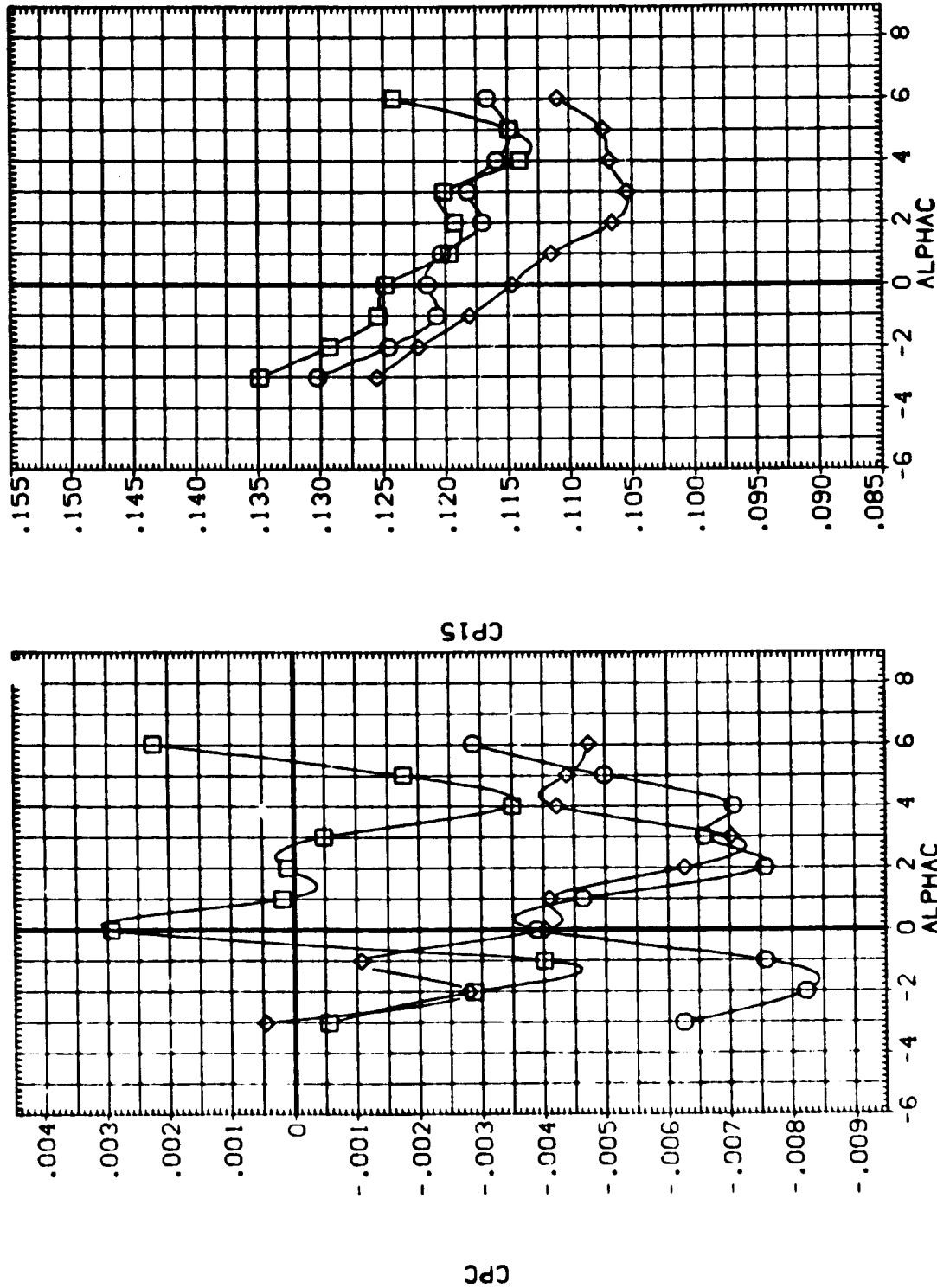


FIG.11 MATED (ORBITER + CARRIER) BASE AND CAVITY PRESSURES

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	STAB-C	RUD-C	ELV-0	I-ORB	REFERENCE INFORMATION
000048	ARC 14-080-1 CA23 747/1 01 ATI (MATED)	5.000	10.000	5.000	4.000	SREF 5500.0000 SO.FT.
000027	ARC 14-080-1 CA23 747/1 01 ATI (MATED)	5.000	10.000	5.000	8.000	LREF 327.7800 IN.
000019	ARC 14-080-1 CA23 747/1 01 ATI (MATED)	5.000	10.000	5.000		BREF 2348.0400 IN.
						XMRP 1339.9000 IN. XC
						YMRP .0000 IN. YC
						ZMRP 190.7500 IN. ZC
						SCALE .0125

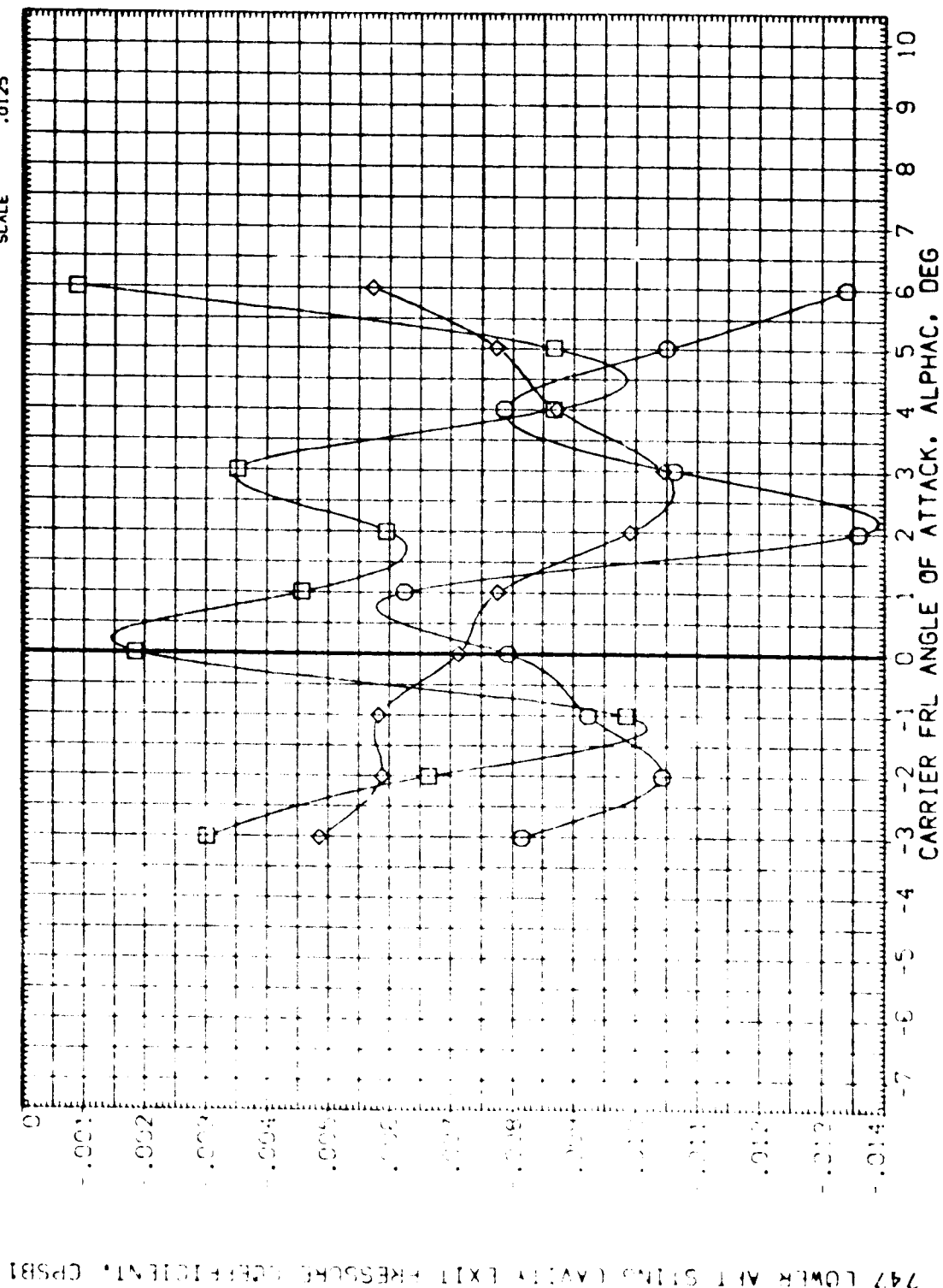


FIG.11 MATED (ORBITER + CARRIER) BASE AND CAVITY PRESSURES

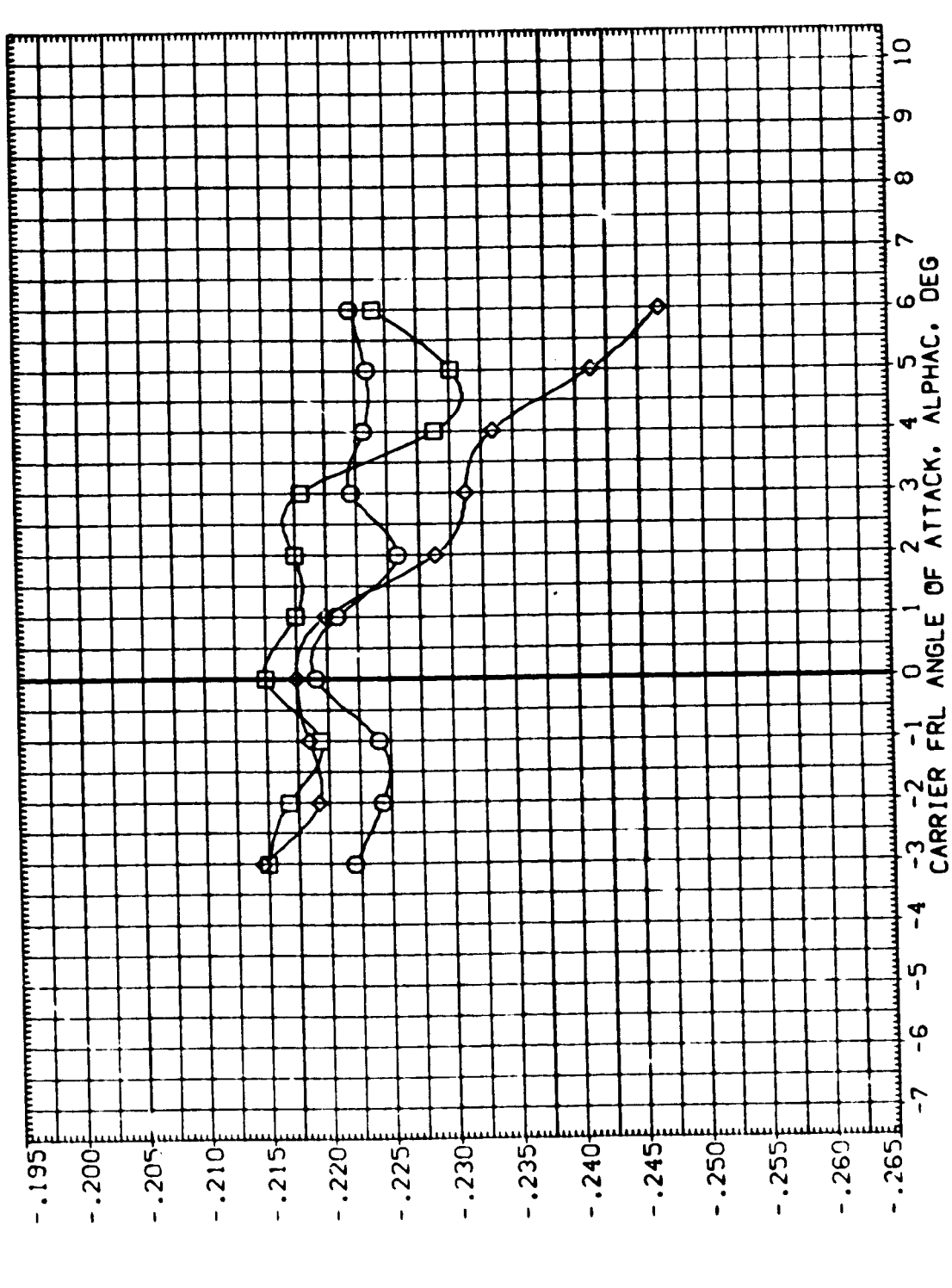
(A)MACH = .60

DATA SET SYMBOL
(CE9C48)
(CE9C27)
(CE9C38)

CONFIGURATION DESCRIPTION
ARC14-080-1 CA23 747/1 61 AT1 (MATED)
ARC14-080-1 CA23 747/1 61 AT1 (MATED)
ARC14-080-1 CA23 747/1 61 AT1 (MATED)

STAB-C RUJ-C ELV-0 I-088
5.000 10.000 5.000 4.000
5.000 10.000 5.000 6.000
5.000 10.000 5.000 8.000

REFERENCE INFORMATION
SREF 5500.0000 SQ.FT.
LREF 327.7800 IN.
BREF 2348.0400 IN.
XMRP 1339.9000 IN.
YMRP .0000 IN.
ZMRP 190.7500 IN.
SCALE .0125

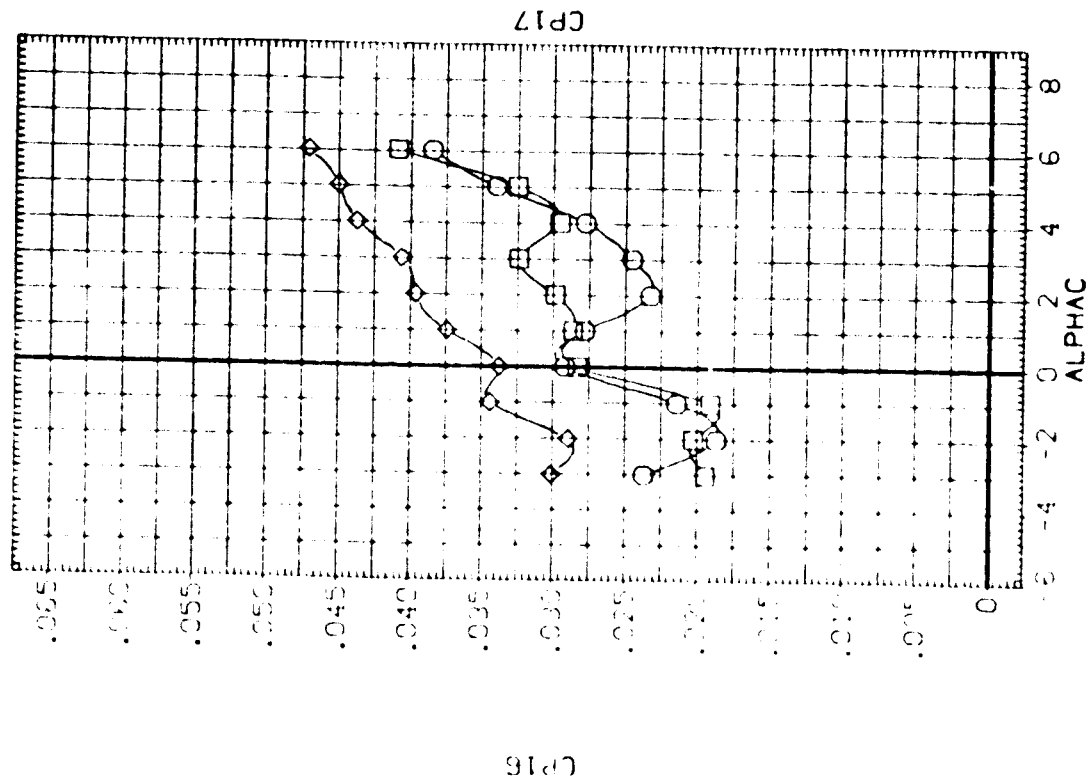


ORBITER BASE PRESSURE COEFFICIENT, CP14

FIG.11 MATED (ORBITER + CARRIER) BASE AND CAVITY PRESSURES

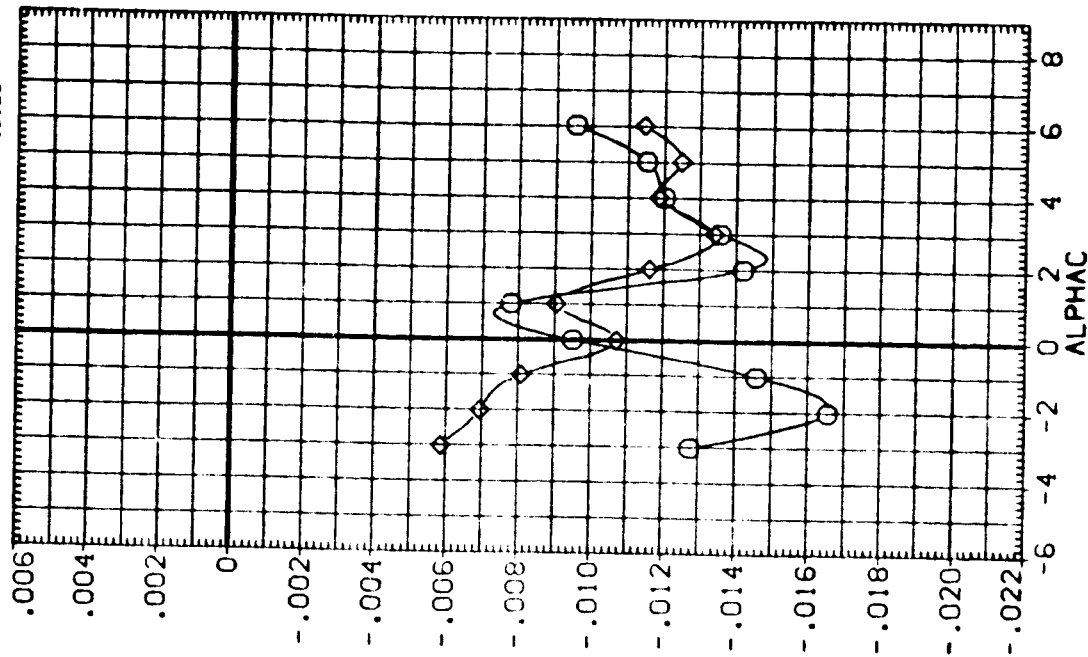
(A)MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (CE 046) ARC14 080-1 CA23 747/1 01 AT1 (MATED)
 (CE 046) ARC14 050-1 CA23 747/1 01 AT1 (MATED)
 (CE 046) ARC14 045-1 CA23 747/1 01 AT1 (MATED)



CP16

STAB-C RUO-C ELV-0 I-ORB REFERENCE INFORMATION SQ.FT.
 5.000 10.000 5.000 4.000 SREF 5500.0000 IN.
 5.000 10.000 5.000 6.000 LREF 327.7800 IN.
 5.000 10.000 5.000 8.000 BREF 2348.0400 IN.
 XMRP 1339.9000 IN. XC
 YMRP .0000 IN. YC
 ZMRP 190.7500 IN. ZC
 SCALE .0125



CP17

FIG.11 MATED (ORBITER + CARRIER) BASE AND CAVITY PRESSURES

(A) MACH = .60

DATA SET SYMBOL (CE928) ○ CONFIGURATION DESCRIPTION ARC14-080-1 CA23 747/1 01 AT1 (MATED)

STAB-C 3.000 RUO-C .000 ELV-0 5.000 I-OR0 6.000

REFERENCE INFORMATION
 SREF 5500.0000 50.FT.
 LREF 327.7800 IN.
 BREF 2348.0400 IN.
 XMRP 1339.5000 IN. MC
 YMRP .0000 IN. VC
 ZMRP 190.7500 IN. ZC
 SCALE .0125

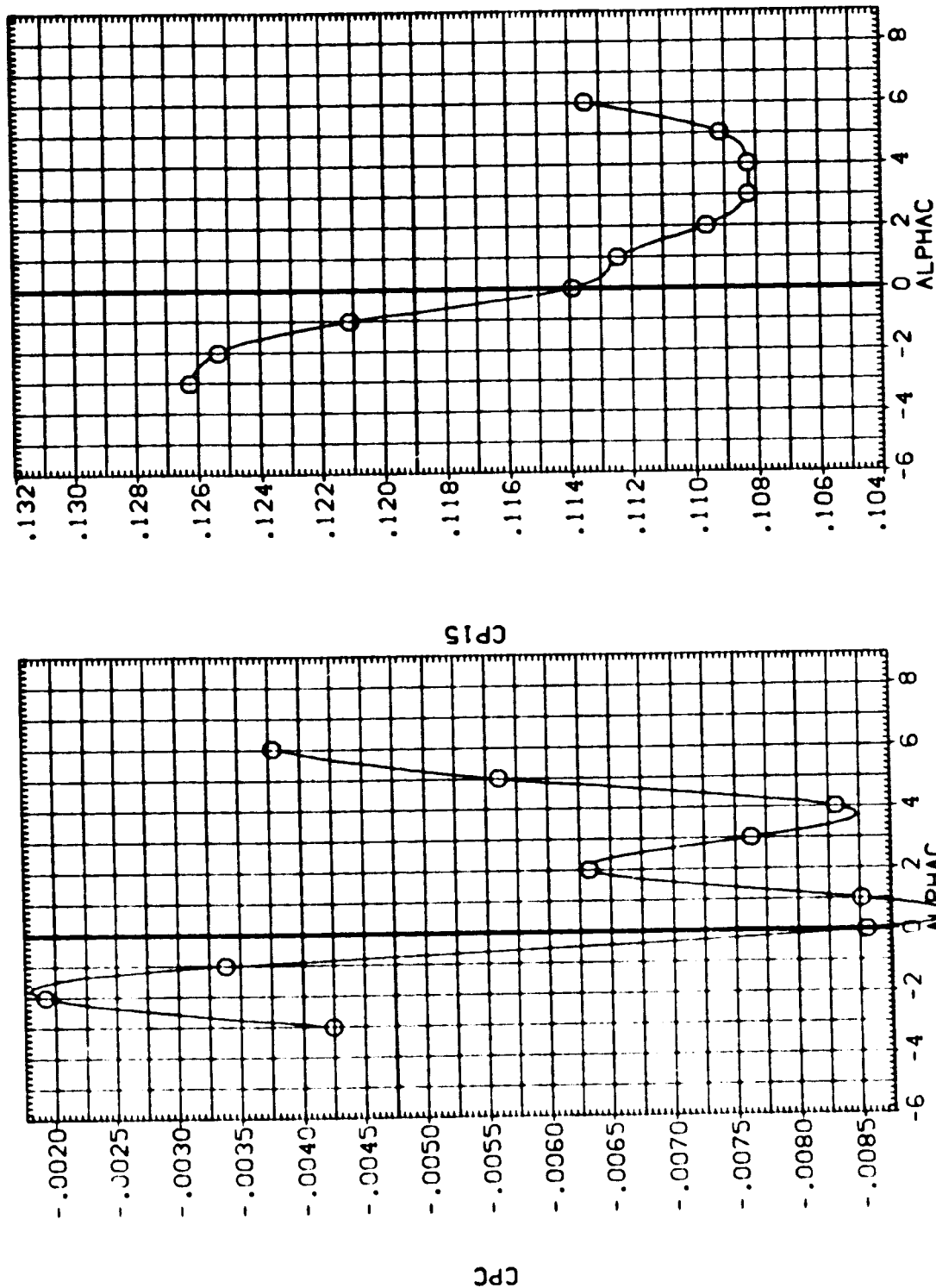


FIG.11 MATED (ORBITER + CARRIER) BASE AND CAVITY PRESSURES

(A) MACH = .60

DATA SET SYMBOL: 747-1 (MATED)

CONFIGURATION DESCRIPTION: ARC14-080-1 CA23 747/1 01 AT1 (MATED)

STAB-C 3.000

RUD-C .000

ELV-0 5.000

I-088 6.000

REFERENCE INFORMATION

SREF 9500.0000 SO.FT.

LREF 327.7800 IN.

BREF 2348.0400 IN.

XMRP 1339.9000 IN. XC

YMRP .0000 IN. YC

ZMRP 190.7500 IN. ZC

SCALE .0125

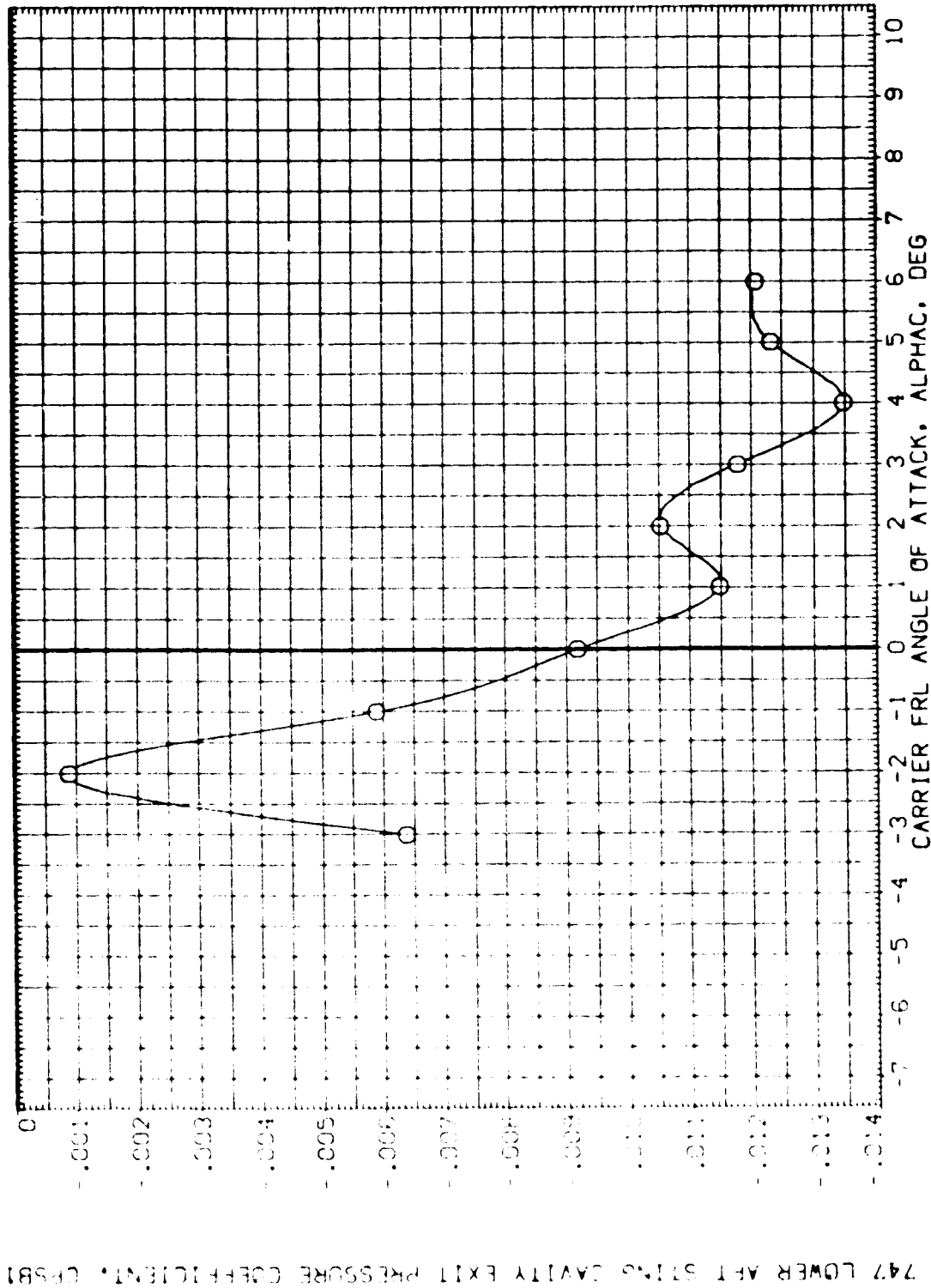


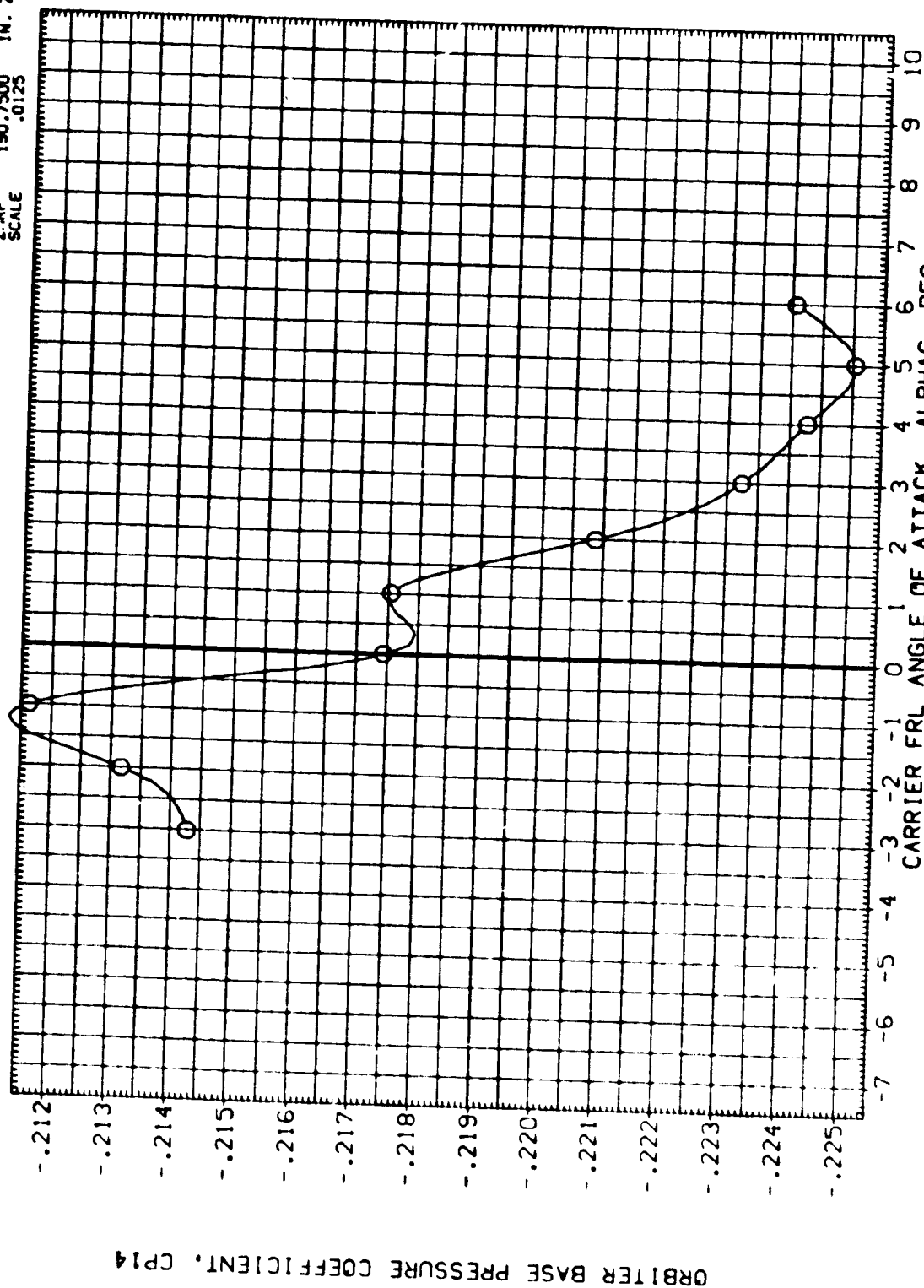
FIG.11 MATED (ORBITER + CARRIER) BASE AND CAVITY PRESSURES

(A)MACH = .60

DATA SET SYMBOL (CE9628) ○ ARC14-080-1 CA23 747/1 01 A71 (MATED)

STAB-C 3.000 RUD-C .000 ELV-0 5.000 I-ORB 6.000

REFERENCE INFORMATION
 SREF 5500.0000 SQ.FT.
 LREF 327.7800 IN.
 BREF 2346.0400 IN.
 XMRP 1339.5000 IN. MC
 YMRP .0000 IN. VC
 ZMRP 190.7500 IN. ZC
 SCALE .0125



ORBITER BASE PRESSURE COEFFICIENT, CP14

FIG.11 MATED (ORBITER + CARRIER) BASE AND CAVITY PRESSURES

(A)MACH = .60



DATA SET SYMBOL: 014-089-1 CA23 747/1 01 AT1 (MATED)

STAB-C RUO-C ELV-0 1-0RB

REFERENCE INFORMATION
 SREF 5500.0000 50.FT.
 LREF 327.7800 IN.
 BREF 2348.0400 IN.
 XMRP 1339.9000 IN. XC
 YMRP .0000 IN. YC
 ZMRP 190.7500 IN. ZC
 SCALE .0125

747 MIDDLE TOP STING CAVITY PRESSURE COEFFICIENT, CP16

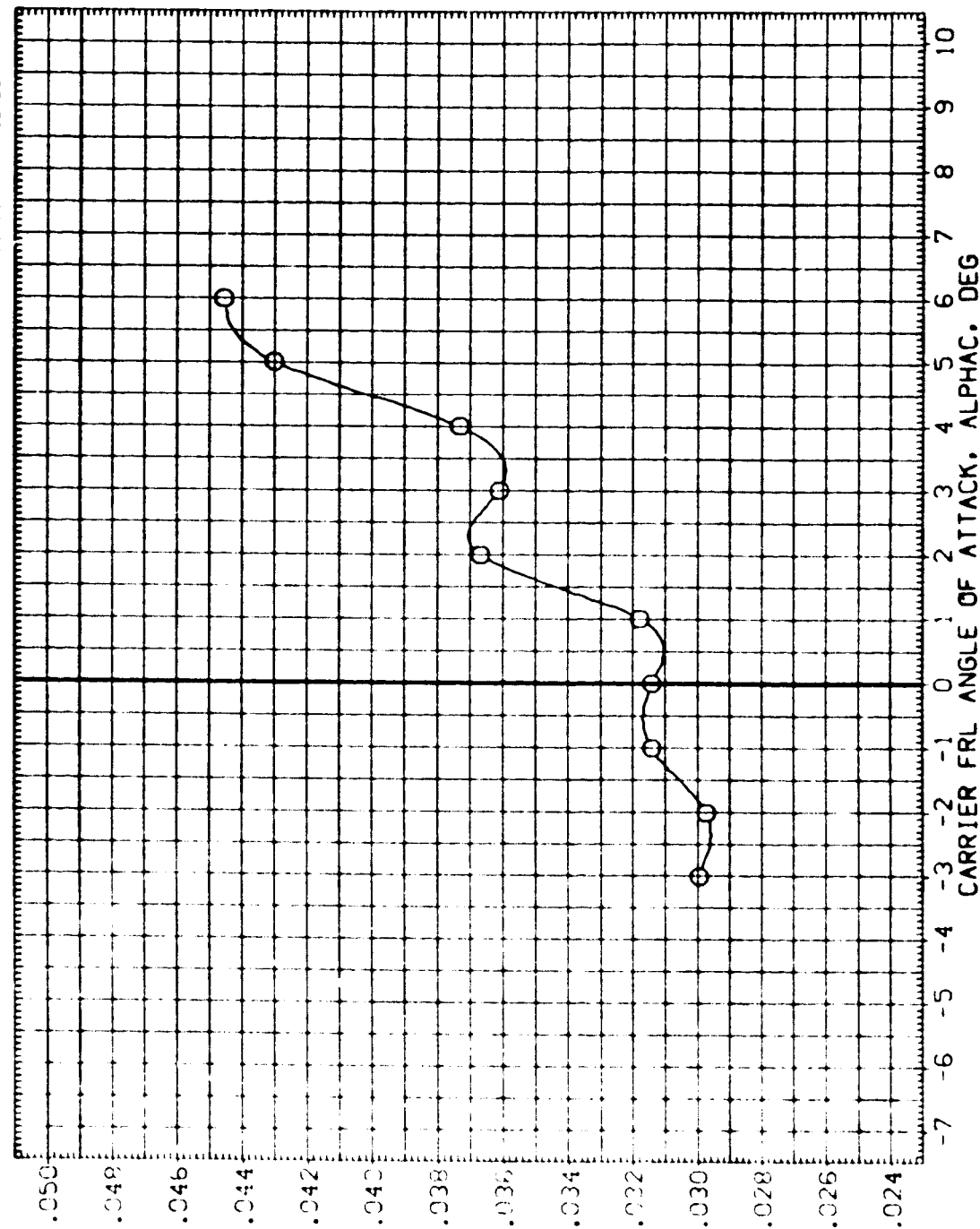


FIG.11 MATED (ORBITER + CARRIER) BASE AND CAVITY PRESSURES

(M)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	STAB-C	RUD-C	ELV-B	I-ORB	REFERENCE INFORMATION
(CE9049)	ARC14-080-1 CA23 747/1 01 AT1 (MATED)	-1.000	.000	5.000	4.000	SREF 5500.0000 SQ.FT.
(CE9029)	ARC14-080-1 CA23 747/1 01 AT1 (MATED)	-1.000	.000	5.000	6.000	LREF 327.7800 IN.
(CE9039)	ARC14-080-1 CA23 747/1 01 AT1 (MATED)	-1.000	.000	5.000	8.000	SREF 2348.0400 IN.
						XMRP 1339.9000 IN. IC
						YMRP .0000 IN. YC
						ZMRP 190.7500 IN. ZC
						SCALE .0125

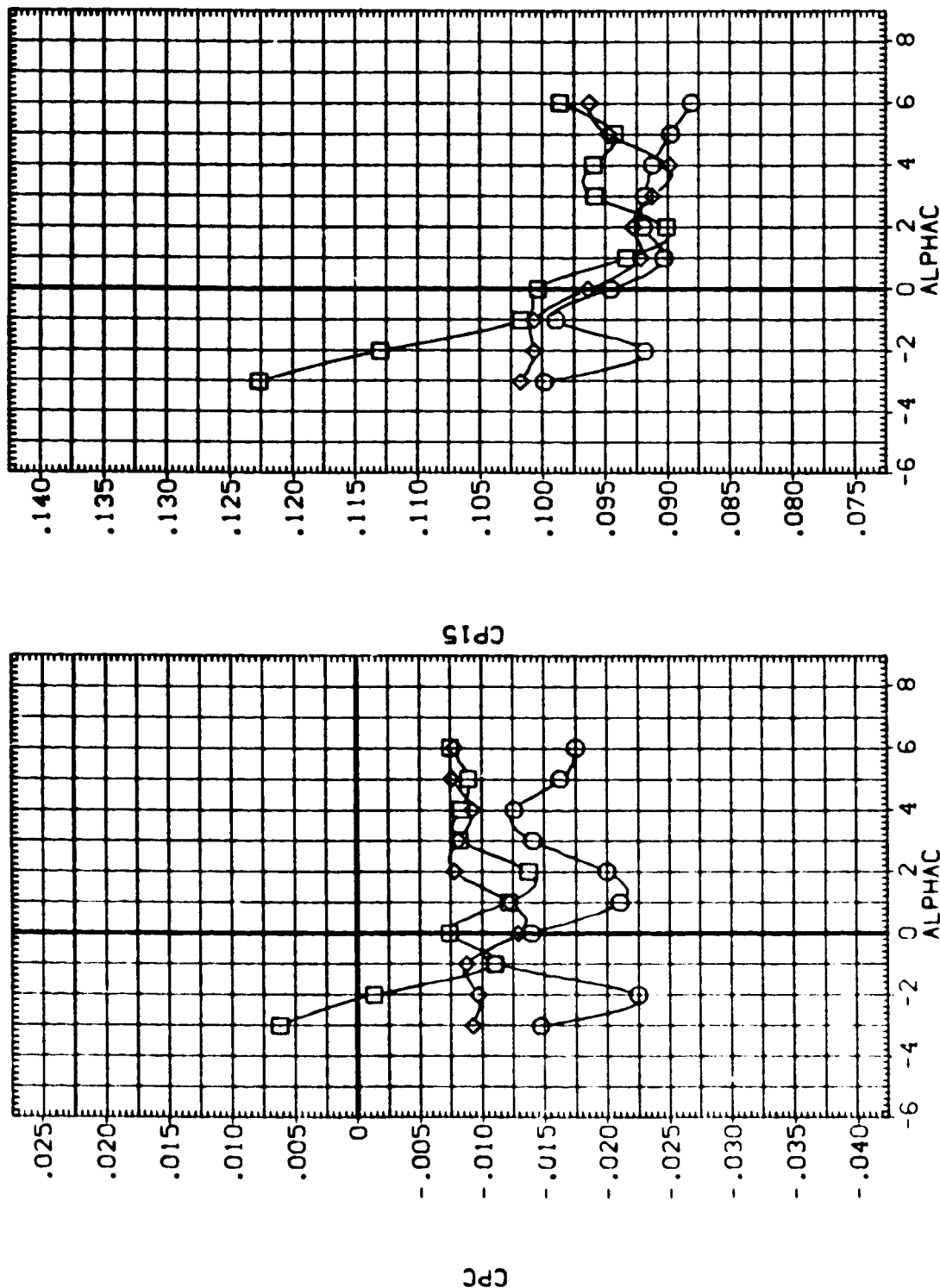


FIG.11 MATED (ORBITER + CARRIER) BASE AND CAVITY PRESSURES

(A)MACH = .80



DATA SET SYMBOL
(CE9049)
(CE9023)
(CE9039)

CONFIGURATION DESCRIPTION
ARC: 4-080-1 CA23 747/1 01 ATI (MATED)
ARC: 4-080-1 CA23 747/1 01 ATI (MATED)
ARC: 4-080-1 CA23 747/1 01 ATI (MATED)

STAB-C
-1.000
-1.000
-1.000

RUD-C
.000
.000
.000

ELV-G
5.000
5.000
5.000

I-ORB
4.000
6.000
8.000

REFERENCE INFORMATION
SREF 9500.0000 SO.FT.
LREF 327.7800 IN.
BREF 2348.0400 IN.
XHRP 1339.9000 IN. XC
YHRP 190.7500 IN. YC
ZHRP .0125 IN. ZC

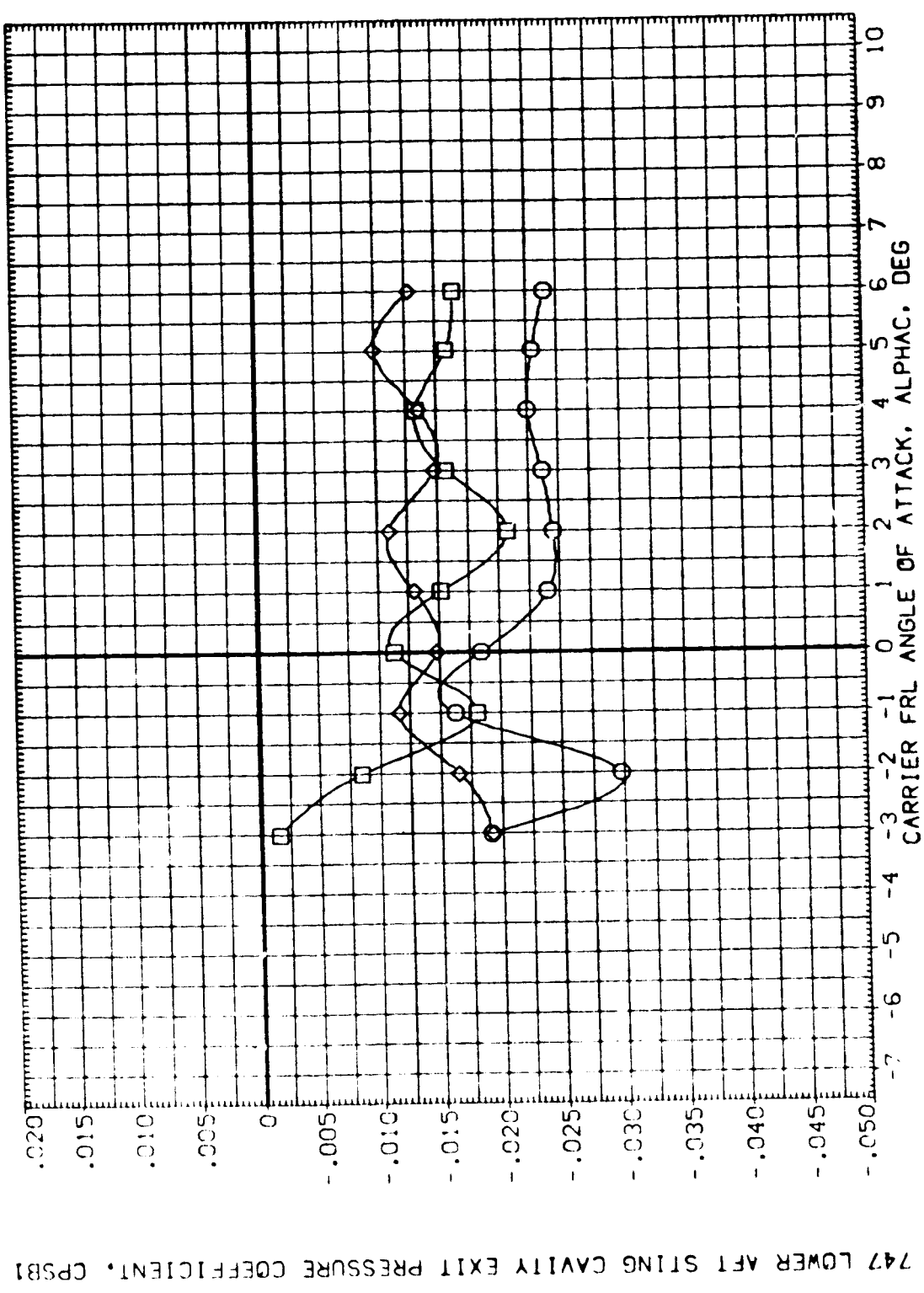


FIG.11 MATED (ORBITER + CARRIER) BASE AND CAVITY PRESSURES

(A)MACH = .60

REFERENCE INFORMATION	
SREF	5500.0000 SO.FT.
LREF	327.7800 IN.
XREF	2348.0400 IN. MC
YREF	1339.9000 IN. VC
ZREF	190.7500 IN. ZC
SCALE	.0125

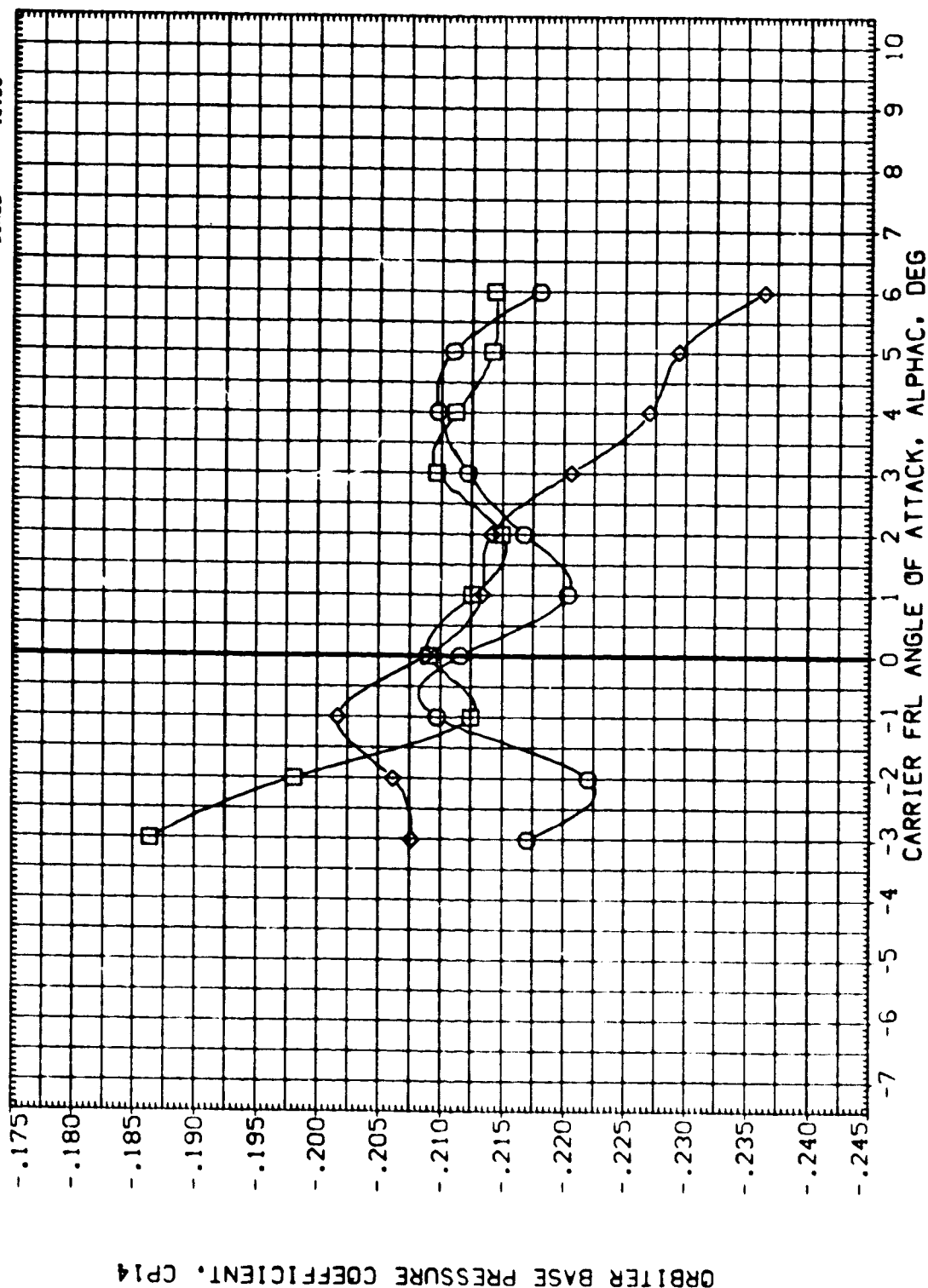


FIG. 11 MATED (ORBITER + CARRIER) BASE AND CAVITY PRESSURES

$$(A)MACH = .50$$

DATA SET SYMBOLS: CONFIGURATION DESCRIPTION
 (CE 149) ARC 14-080-1 CA23 747/1 01 AT1 (MATED)
 (CE 149) ARC 14-080-1 CA23 747/1 01 AT1 (MATED)
 (CE 149) ARC 14-080-1 CA23 747/1 01 AT1 (MATED)

STAB-C RUO-C ELV-0 1-ORB REFERENCE INFORMATION SO.FT.
 -1.000 .000 5.000 4.000 SREF 5500.0000 IN.
 -1.000 .000 5.000 6.000 LREF 327.7800 IN.
 -1.000 .000 5.000 8.000 BREF 2348.0400 IN.
 XMRP 1339.9000 IN. XC
 YMRP .0000 IN. YC
 ZMRP 190.7500 IN. ZC
 SCALE .0125

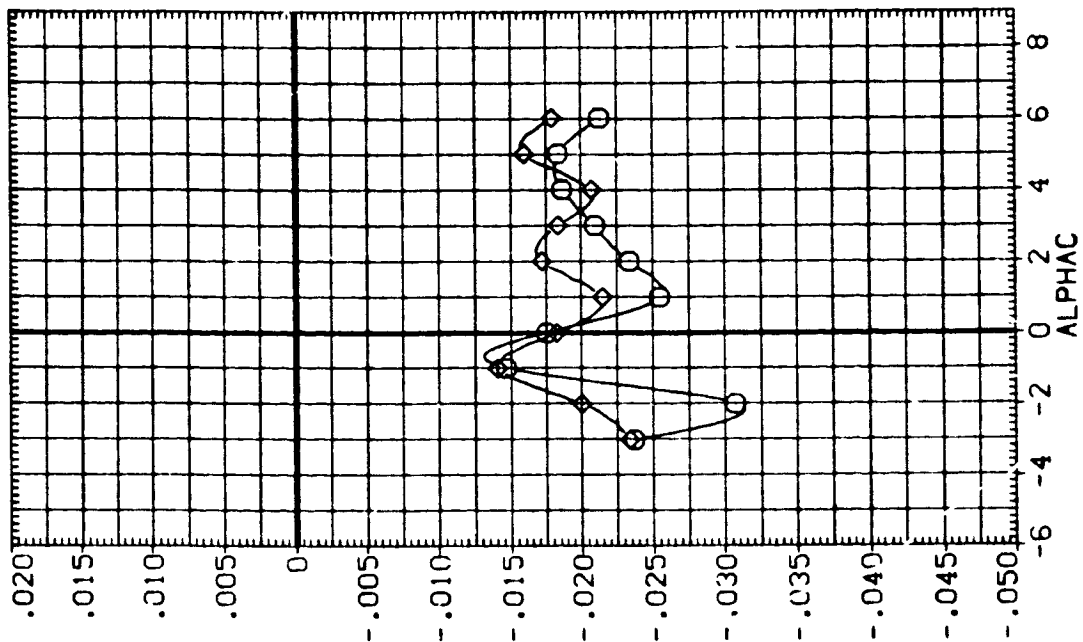
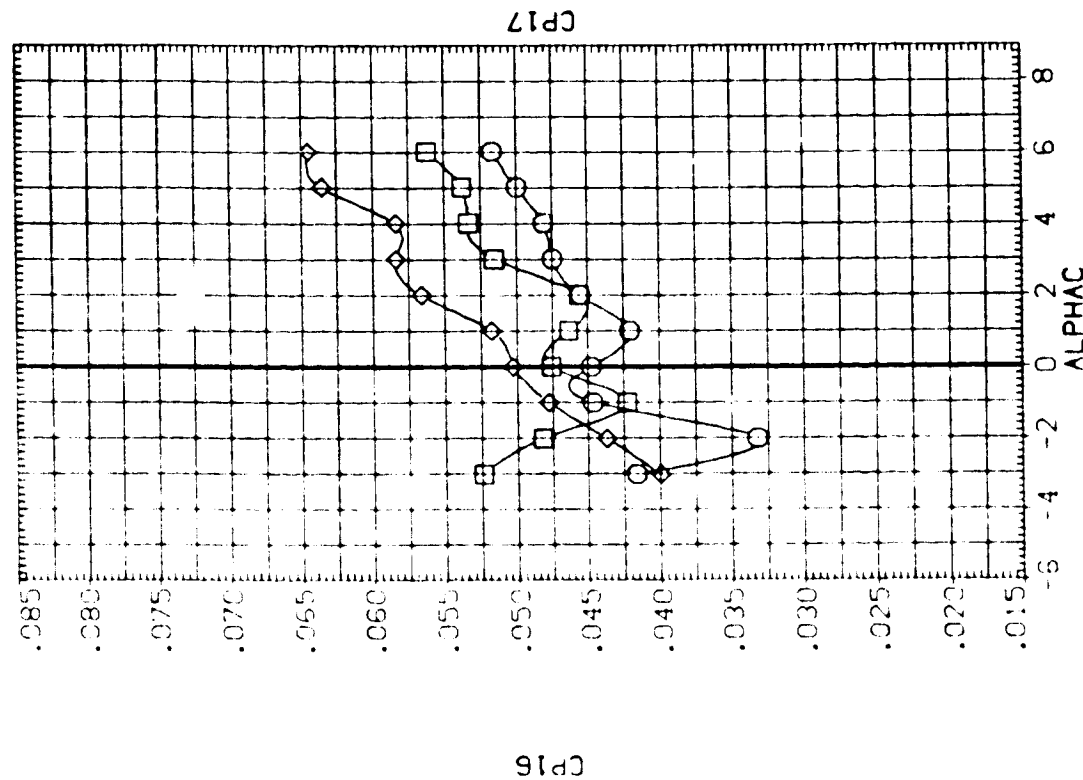


FIG.11 MATED (ORBITER + CARRIER) BASE AND CAVITY PRESSURES

(A)MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (CES050) ARC14-080-1 CA23 747/1 01 AT1 (MATED)
 (CES030) ARC14-080-1 CA23 747/1 01 AT1 (MATED)
 (CES040) ARC14-080-1 CA23 747/1 01 AT1 (MATED)

STAB-C RUJ-C ELV-0 1-088
 -1.000 .000 10.000 4.000
 -1.000 .000 10.000 6.000
 -1.000 .000 10.000 8.000

REFERENCE INFORMATION
 SREF 5500.0000 SQ.FT.
 LREF 327.7800 IN.
 BREF 2348.0400 IN.
 XMRP 1339.9000 IN.
 YMRP 190.7500 IN.
 ZMRP 190.7500 IN.
 SCALE .0125

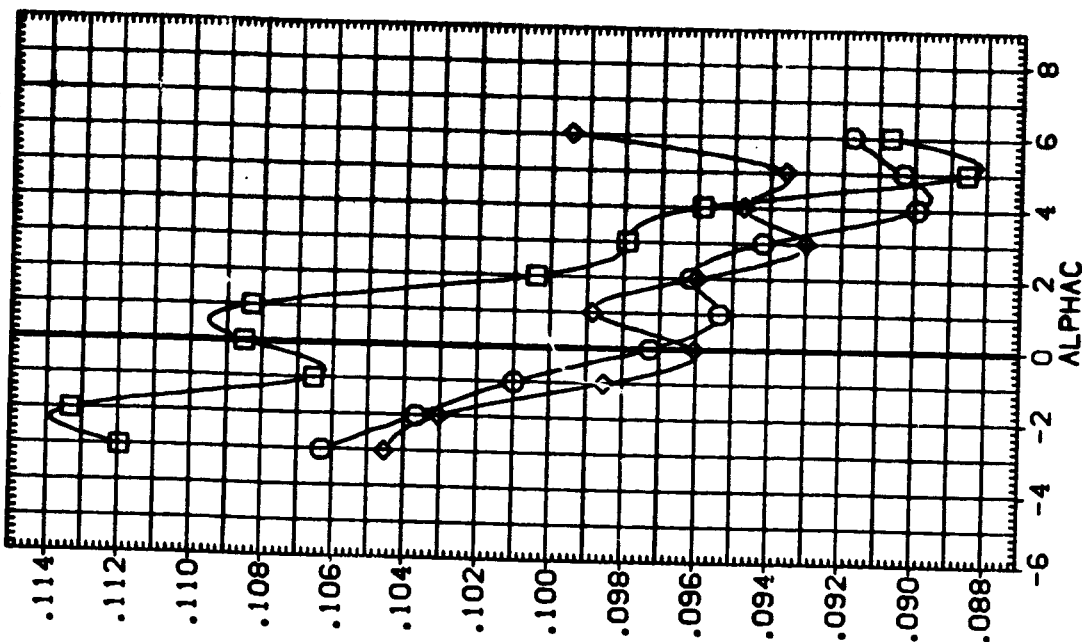
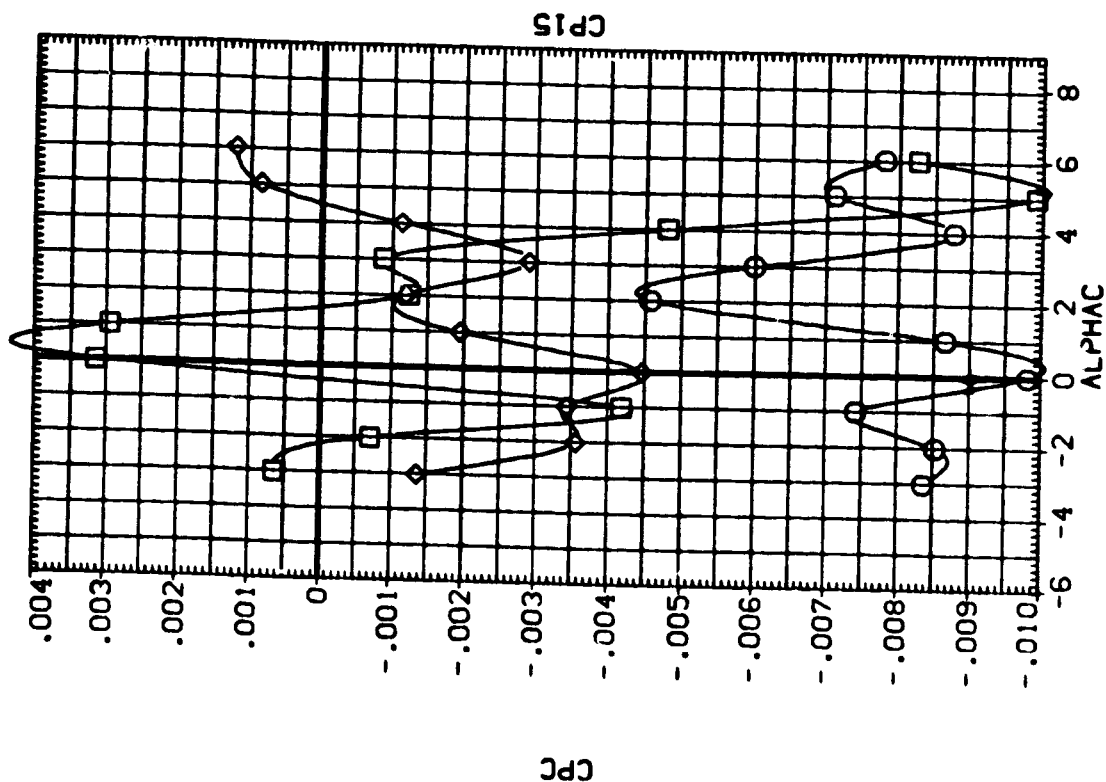


FIG.11 MATED (ORBITER + CARRIER) BASE AND CAVITY PRESSURES

(A)MACH = .60



U

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	STAB-C	RUD-C	ELV-0	I-088	REFERENCE INFORMATION
(CE9050)	ARC14-080-1 CA23 747/1 01 AT1 (MATED)	-1.000	.000	10.000	4.000	SREF 5500.0000 SQ.FT.
(CE9030)	ARC14-080-1 CA23 747/1 01 AT1 (MATED)	-1.000	.000	10.000	6.000	LREF 327.7800 IN.
(CE9040)	ARC14-080-1 CA23 747/1 01 AT1 (MATED)	-1.000	.000	10.000	8.000	BREF 2348.0400 IN.
						XMRP 1338.5000 IN. VC
						YMRP 190.7500 IN. VC
						ZMRP 190.7500 IN. VC
						SCALE .0125

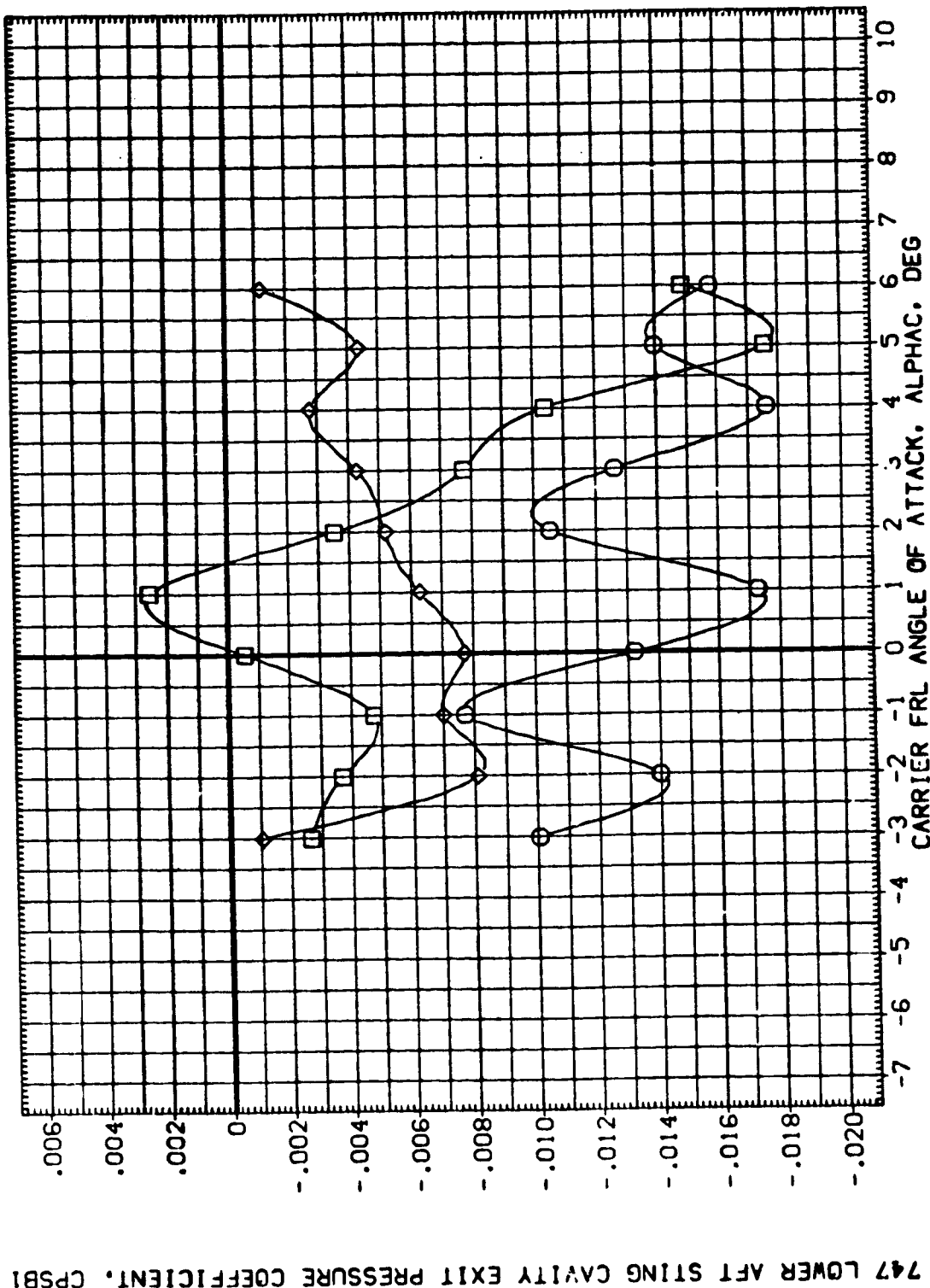


FIG.11 MATED (ORBITER + CARRIER) BASE AND CAVITY PRESSURES

(A)MACH = .60

REFERENCE INFORMATION	
SREF	5500.0000 \$0.F7.
LINEF	327.7000 IN.
BREF	2349.0400 IN.
XREF	1339.9000 IN. 2C
YREF	0000 IN. 2C
ZREF	180.7500 IN. 2C
SCALE	.0125



$[A]_{MACH} = .60$

DATA SET SYMBOL	CONFIGURATION	DESCRIPTION
(CE9050)	ARC14-080-1 CA23 747/1	01 ATI (MATED)
(CE9030)	ARC14-080-1 CA23 747/1	01 ATI (MATED)
(CE9040)	ARC14-080-1 CA23 747/1	01 ATI (MATED)
(CE9030)	ARC14-080-1 CA23 747/1	01 ATI (MATED)

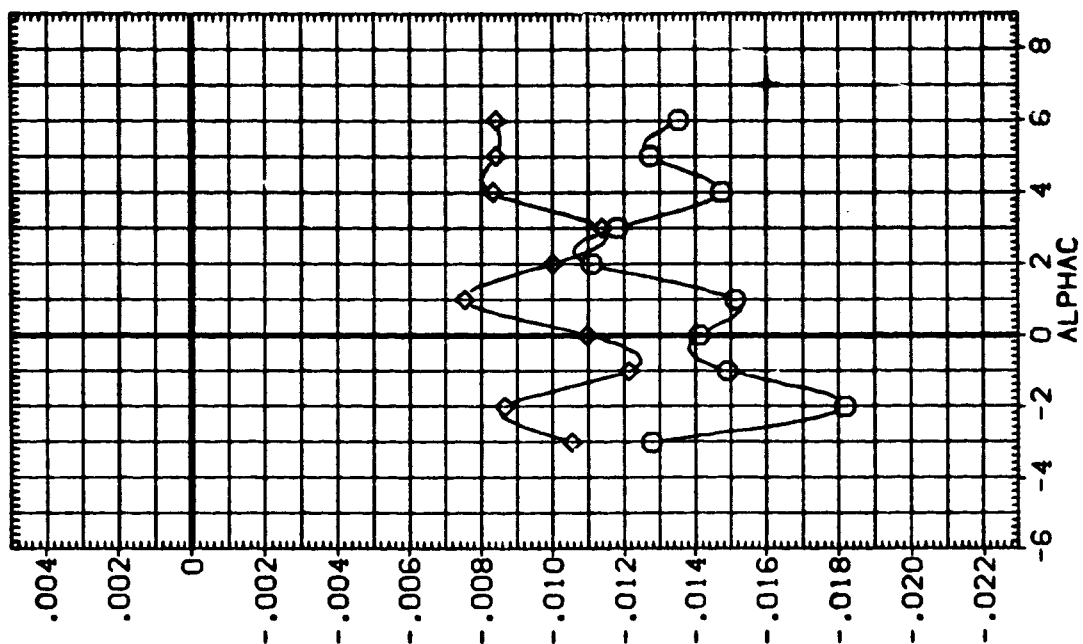
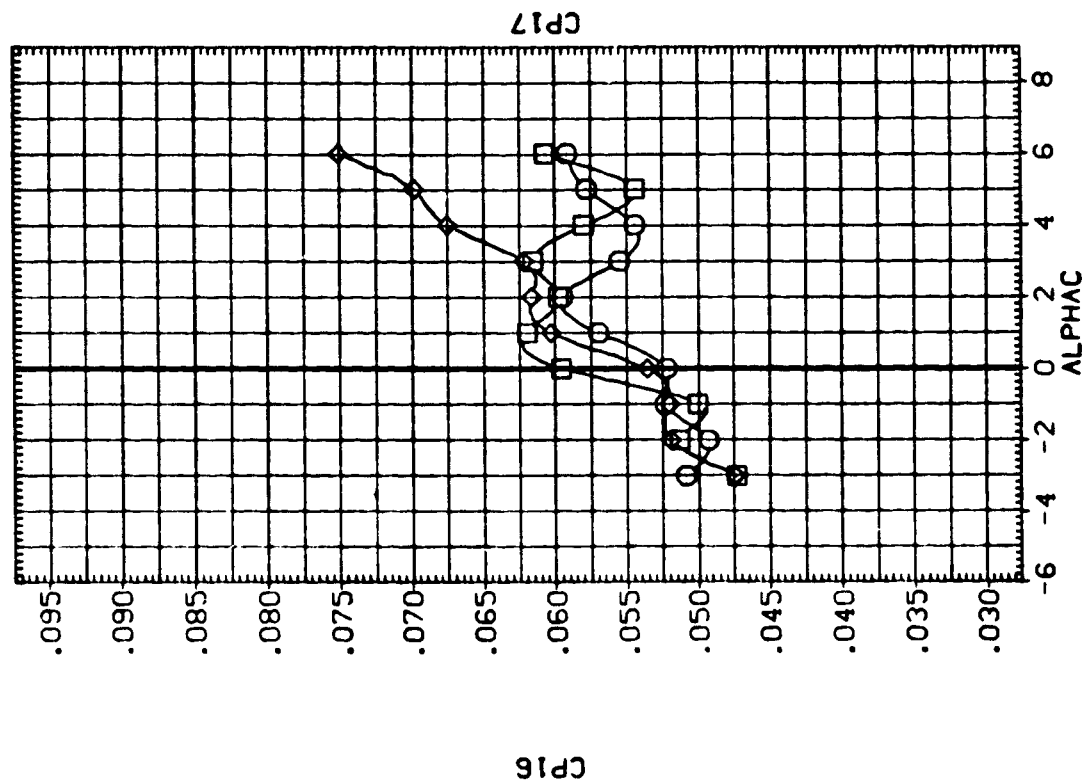


FIG.11 MATED (ORBITER + CARRIER) BASE AND CAVITY PRESSURES
(A)MACH = .60

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STAB-C	RUD-C	ELV-O	I-GRD	REFERENCE INFORMATION
5.000	.000	10.000	4.000	SREF 9500.0000 SQ.FT.
5.000	.000	10.000	6.000	LREF 327.7800 IN.
5.000	.000	10.000	8.000	SREF 2348.0400 IN.
				WTRP 1339.9000 IN.
				WTRP .0000 IN.
				WTRP 190.7500 IN.
				ZTRP SCALE .0125

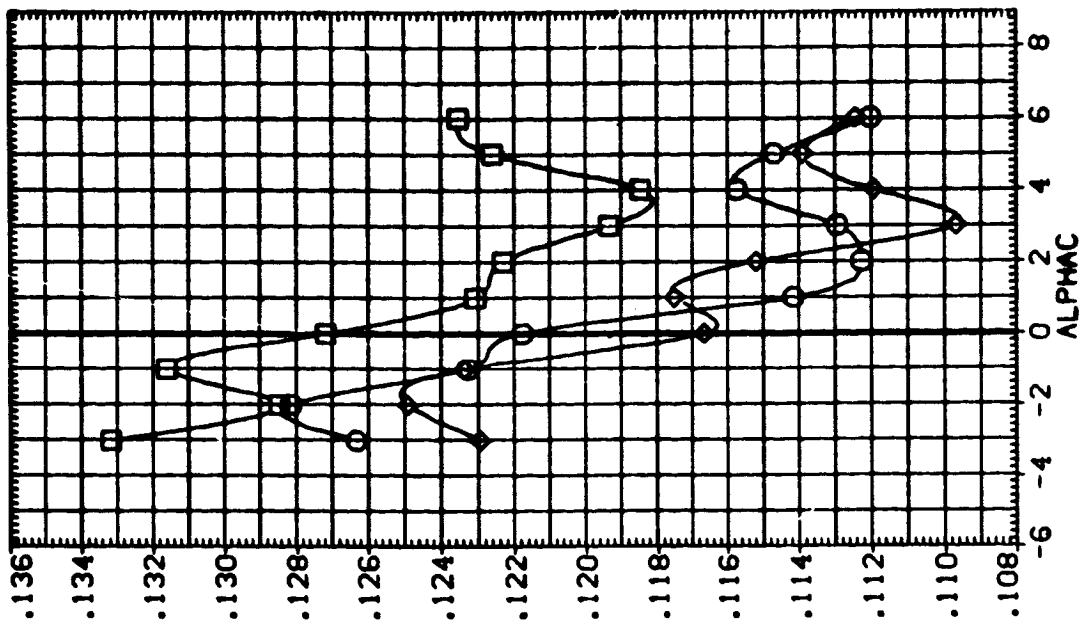
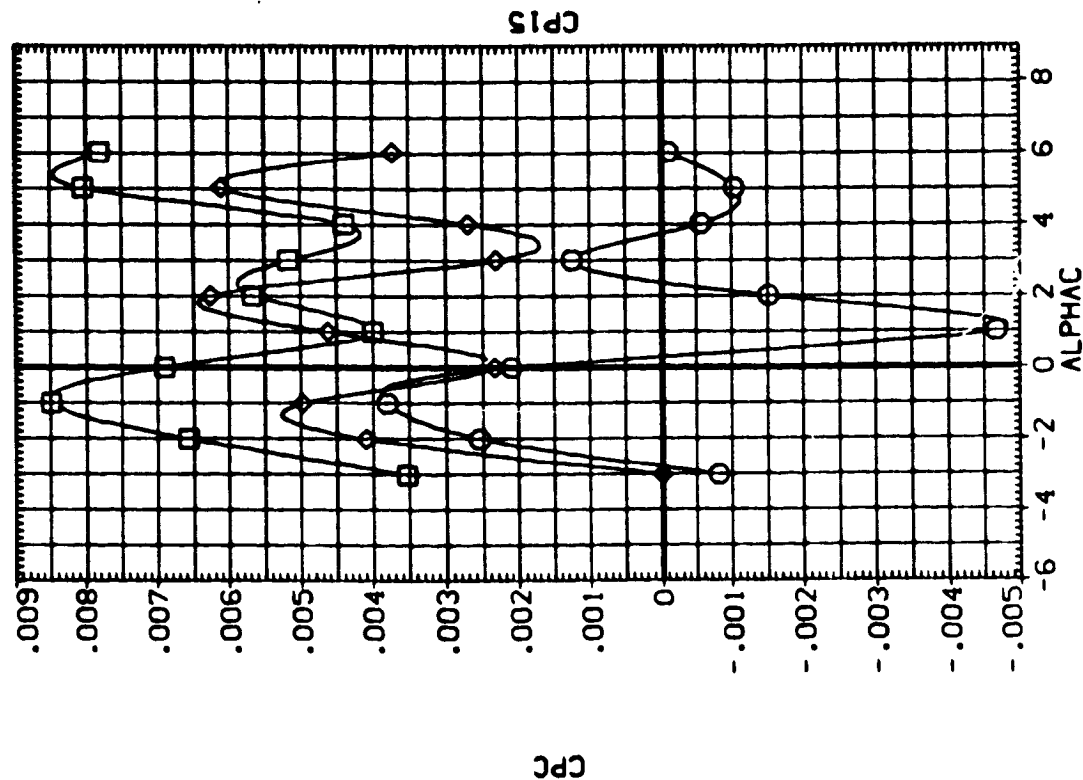


FIG. 11 MATED (ORBITER + CARRIER) BASE AND CAVITY PRESSURES

$$(A)MACH = .60$$

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	STAB-C	RUD-C	ELV-0	I-ORB	REFERENCE INFORMATION
(CE9051)	ARC14-080-1 CA23 747/1 01 AT1 (MATED)	5.000	.000	10.000	4.000	SREF 5500.0000 50.FT.
(CE9031)	ARC14-080-1 CA23 747/1 01 AT1 (MATED)	5.000	.000	10.000	6.000	LREF 377.7800 IN.
(CE9041)	ARC14-080-1 CA23 747/1 01 AT1 (MATED)	5.000	.000	10.000	8.000	BREF 2348.0400 IN.
						YMRP 1339.9000 IN. XC
						ZMRP .0000 IN. ZC
						SCALE 190.7500 IN. ZC

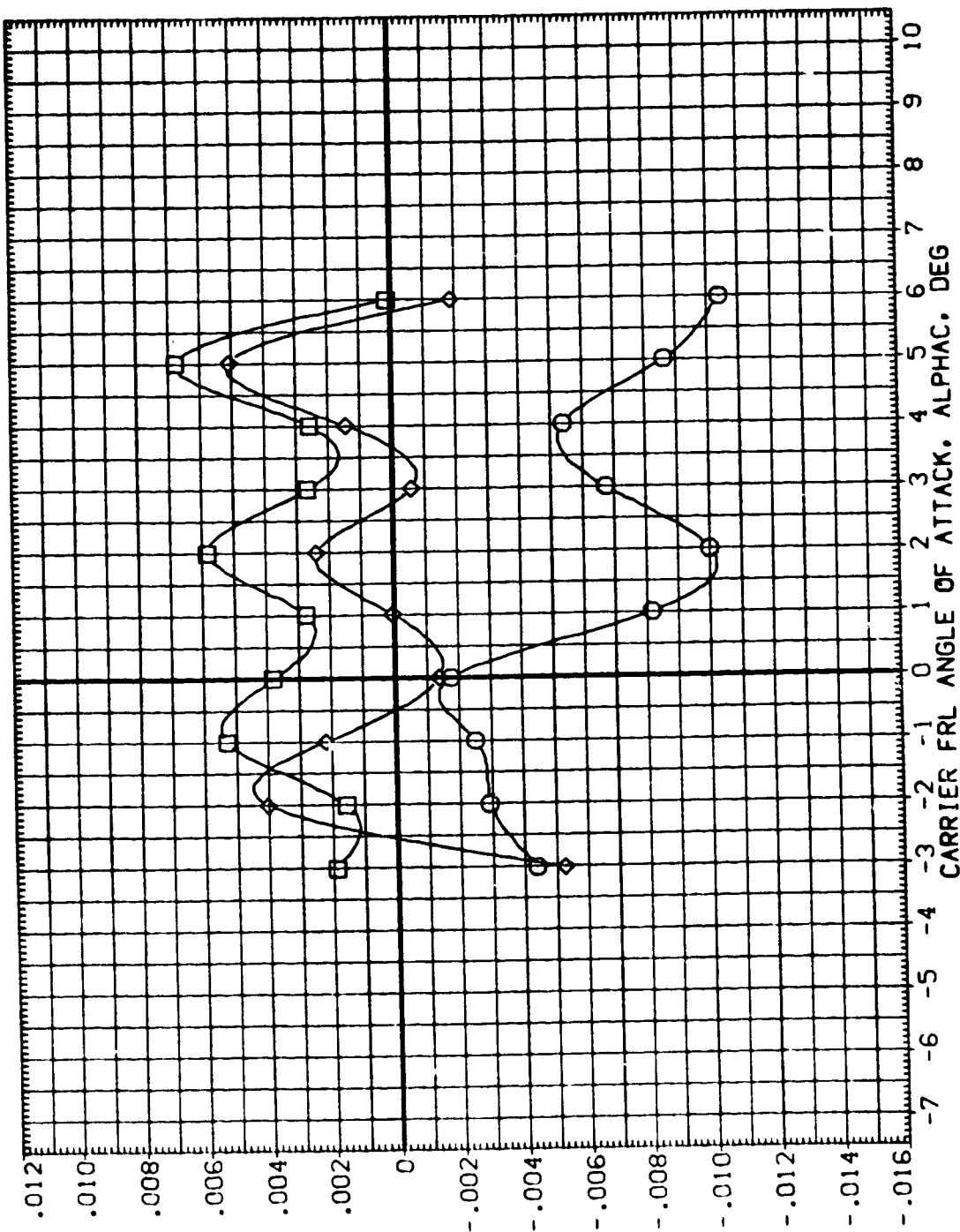


FIG.11 MATED (ORBITER + CARRIER) BASE AND CAVITY PRESSURES

(A)MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(CE9051) ARC14-080-1 CA23 747/1 01 AT1 (MATED)

(CE9031) ARC14-080-1 CA23 747/1 01 AT1 (MATED)

(CE9041) ARC14-080-1 CA23 747/1 01 AT1 (MATED)

STAB-C RUD-C ELV-B I-ORB

5.000 .000 10.000 4.000

5.000 .000 10.000 6.000

5.000 .000 10.000 8.000

REFERENCE INFORMATION

SREF 9500.0000 90.FT.

LREF 327.7800 IN.

BREF 2348.0400 IN.

YMRP 1339.0000 IN.

ZMRP 190.7500 IN.

SCALE .0125

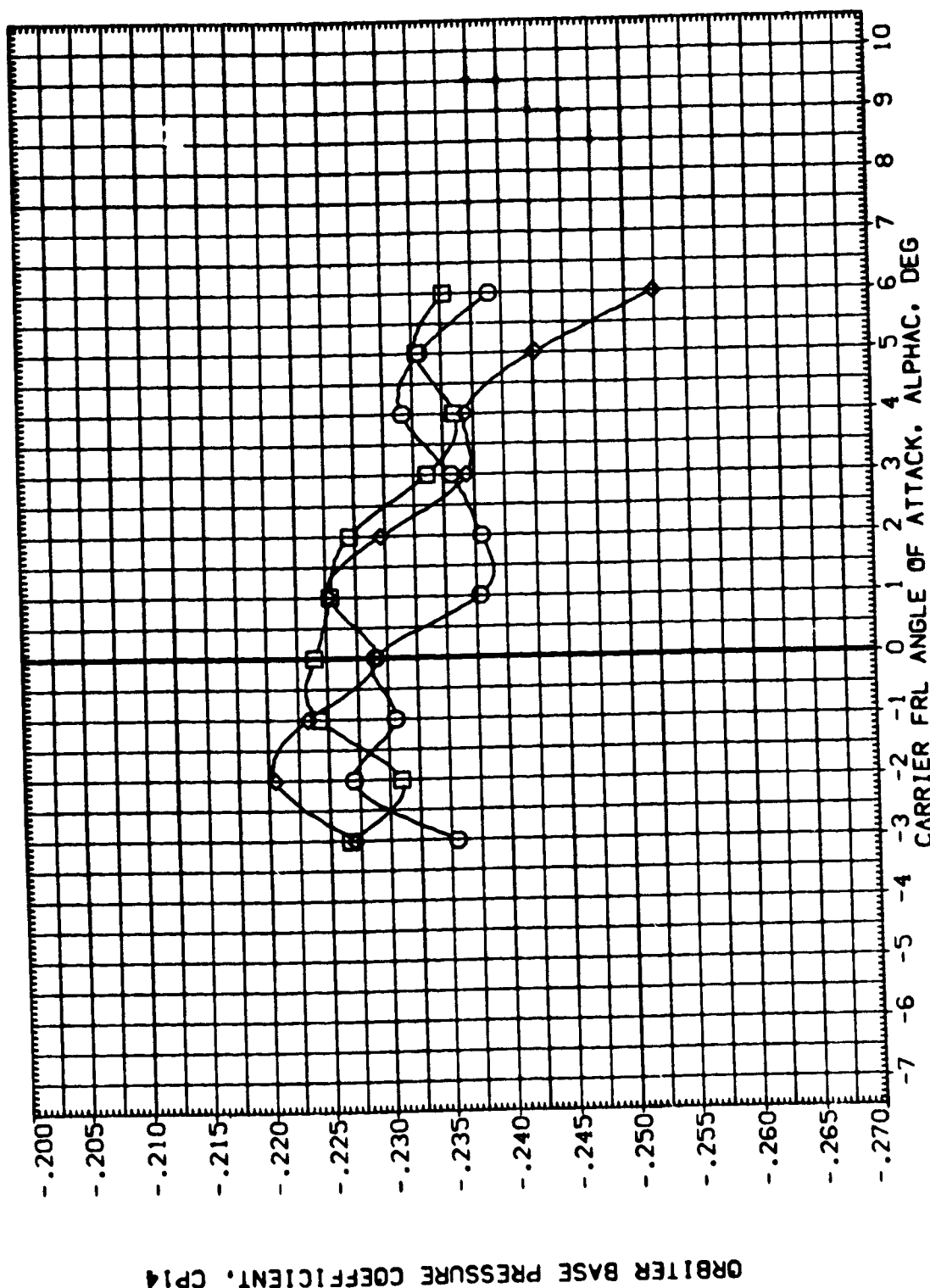


FIG.11 MATED (ORBITER + CARRIER) BASE AND CAVITY PRESSURES

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	STAB-C	RUD-C	ELV-0	I-068	REFERENCE INFORMATION
(CE9051)	ARC14-080-1 CA23 747/1 01 AT1 (MATED)	5.000	.000	10.000	4.000	SREF 5500.0000 SQ.FT.
(CE9331)	ARC14-080-1 CA23 747/1 01 AT1 (MATED)	5.000	.000	10.000	6.000	LREF 327.7800 IN.
(CE9041)	ARC14-080-1 CA23 747/1 01 AT1 (MATED)	5.000	.000	10.000	8.000	BREF 2348.0400 IN.
						XMRP 1339.9000 IN. MC
						YMRP 190.7500 IN. YC
						ZMRP 190.7500 IN. ZC
						SCALE .0125

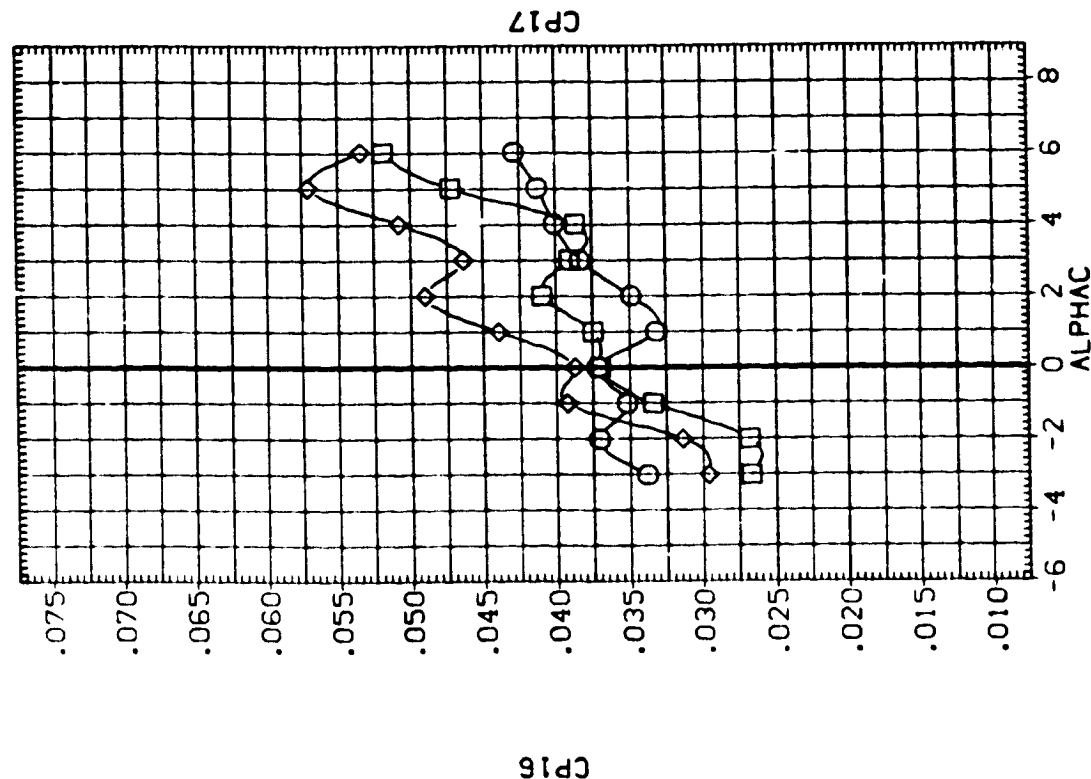
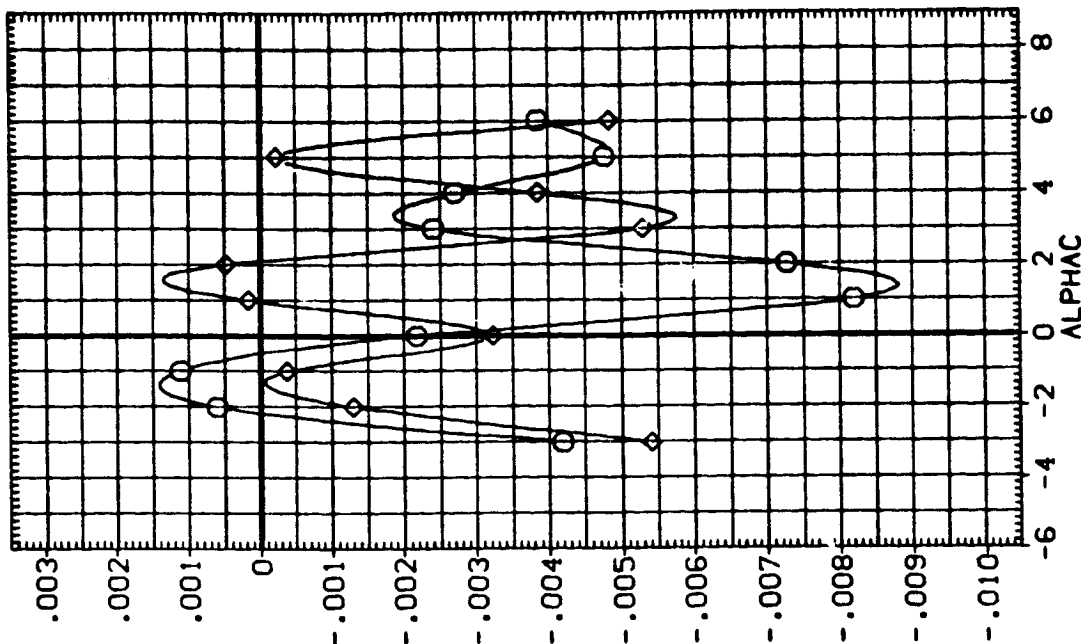


FIG.11 MATED (ORBITER + CARRIER) BASE AND CAVITY PRESSURES

(A)MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (CE9046) ARC14-080-1 CA23 747/1 01 AT1 (MATED)
 (CE9032) ARC14-080-1 CA23 747/1 01 AT1 (MATED)
 (CE9043) ARC14-080-1 CA23 747/1 01 AT1 (MATED)

STAB-C RUO-C ELV-0 I-GRB REFERENCE INFORMATION SQ-FT.
 5.000 .000 .000 4.000 SREF 5500.0000 IN.
 5.000 .000 .000 6.000 LREF 327.7600 IN.
 5.000 .000 .000 6.000 BRFP 2346.0400 IN.
 XMRP 1339.5000 IN. MC
 YMRP .0000 IN. VC
 ZMRP 180.7500 IN. ZC
 SCALE .0125

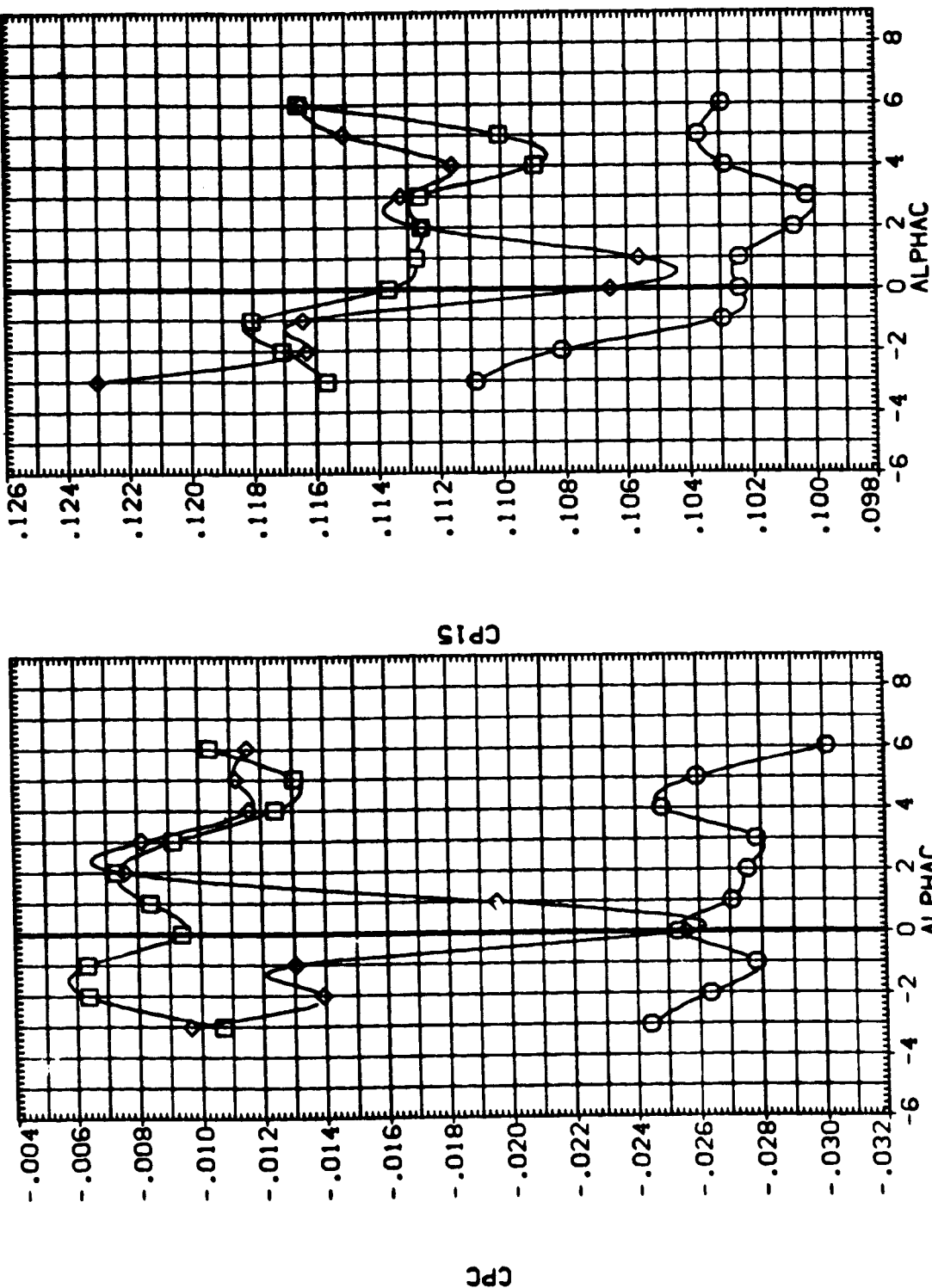


FIG.11 MATED (ORBITER + CARRIER) BASE AND CAVITY PRESSURES

(A)MACH = .60



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	STAB-C	RUD-C	ELV-0	1-OR8	REFERENCE INFORMATION
(CE9046)	ARC14-080-1 CA23 747/1 01 AT1 (MATED)	5.000	.000	.000	4.000	SREF 5500.0000 50.FT.
(CE9032)	ARC14-080-1 CA23 747/1 01 AT1 (MATED)	5.000	.000	.000	6.000	LMREF 327.7800 IN.
(CE9043)	ARC14-080-1 CA23 747/1 01 AT1 (MATED)	5.000	.000	.000	8.000	BRREF 2348.0400 IN.
						YMRP 1339.9000 IN. MC
						ZMRP 190.7500 IN. VC
						SCALE .0125

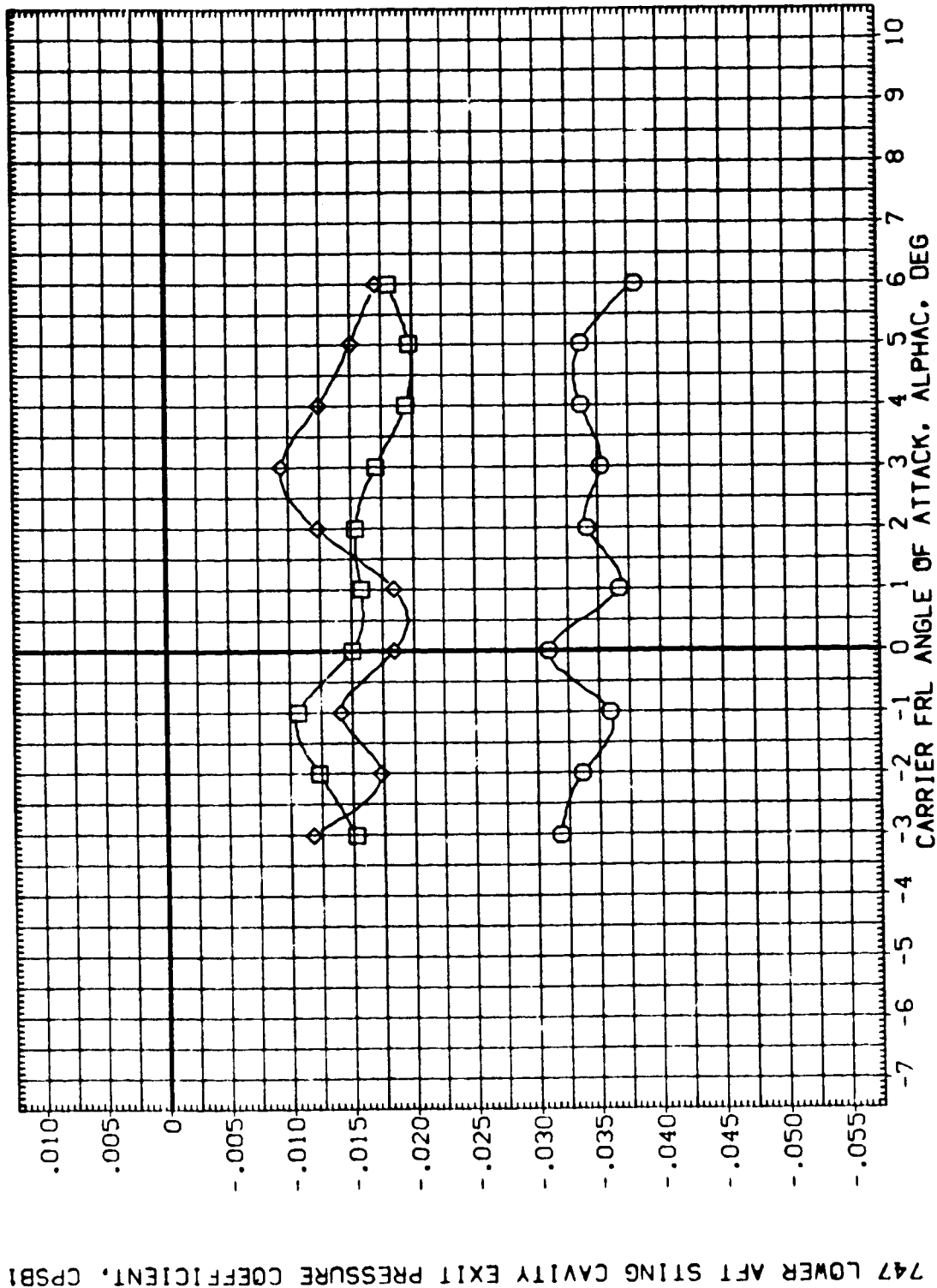


FIG.11 MATED (ORBITER + CARRIER) BASE AND CAVITY PRESSURES

(A)MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(CE9046) ARC14-080-1 CA23 747/1 01 ATI (MATED)

(CE9032) ARC14-080-1 CA23 747/1 01 ATI (MATED)

(CE9043) ARC14-080-1 CA23 747/1 01 ATI (MATED)

STAB-C RUD-C ELV-0 I-088

5.000 .000 .000 4.000

5.000 .000 .000 6.000

5.000 .000 .000 8.000

REFERENCE INFORMATION

SREF 5500.0000 50. FT.

LREF 327.7800 IN.

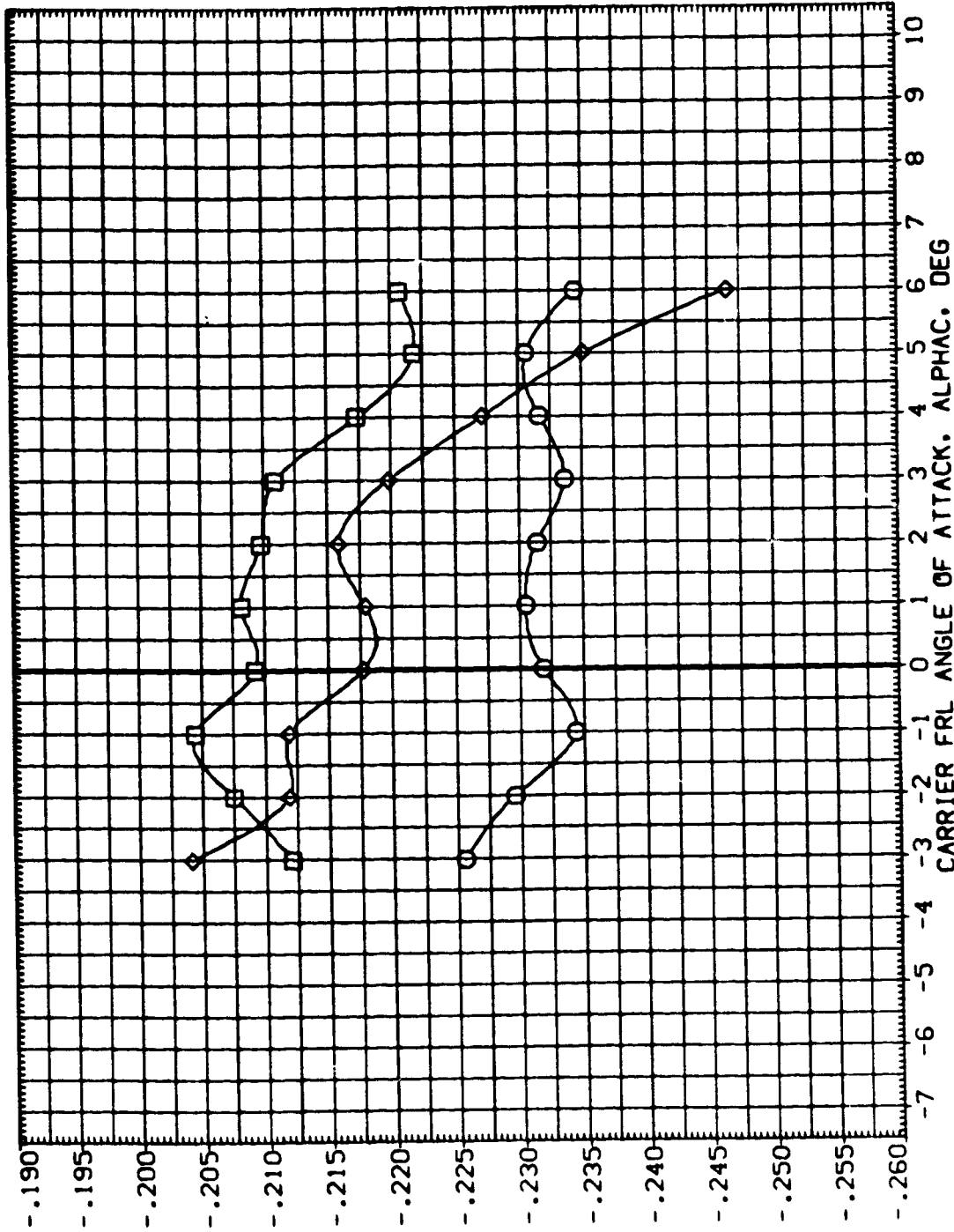
BREF 2348.0400 IN.

XMRP 1339.8000 IN.

YMRP 190.7500 IN.

ZMRP 190.7500 IN.

SCALE .0125

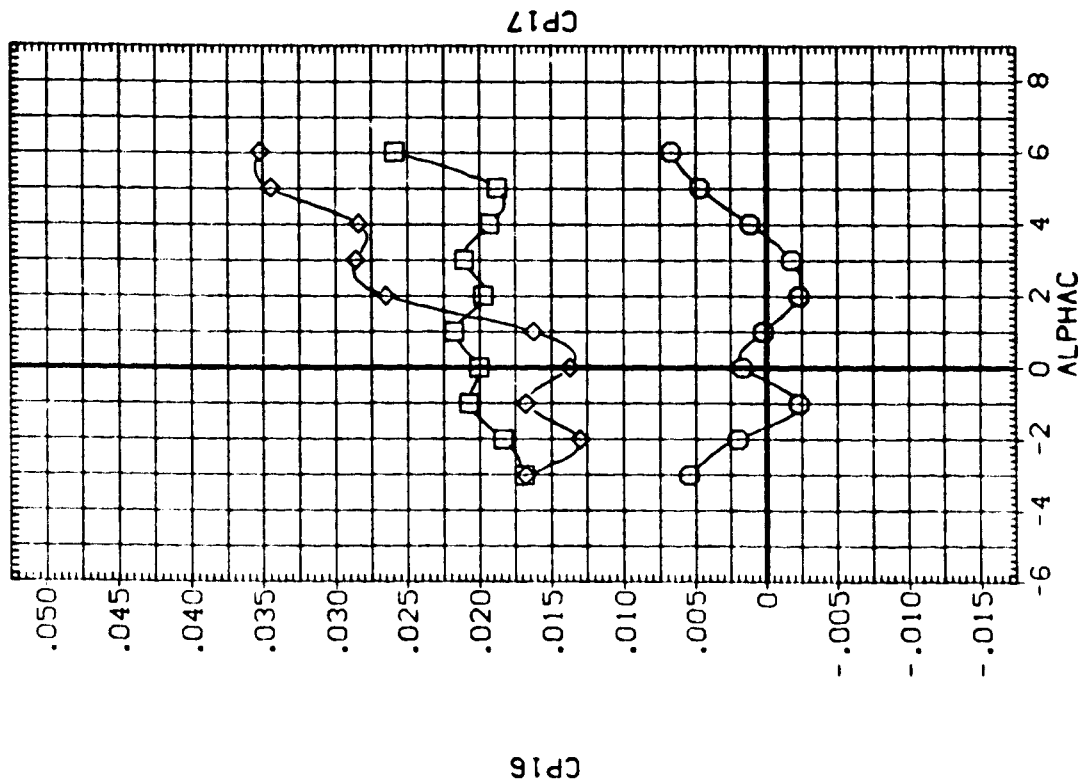


ORBITER BASE PRESSURE COEFFICIENT, CP14

FIG.11 MATED (ORBITER + CARRIER) BASE AND CAVITY PRESSURES

(A)MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (CE9046) ARC14-080-1 CA23 747/1 01 AT1 (MATED)
 (CE9032) ARC14-080-1 CA23 747/1 01 AT1 (MATED)
 (CE9043) ARC14-080-1 CA23 747/1 01 AT1 (MATED)



STAB-C RUD-C ELV-0 I-ORB REFERENCE INFORMATION SO.FT.
 5.000 .000 .000 4.000 SREF 5500.0000 IN.
 5.000 .000 .000 6.000 LREF 327.7800 IN.
 5.000 .000 .000 8.000 BREF 2348.0400 IN.
 XHRP 1339.9000 IN. XC
 ZHRP 190.7500 IN. YC
 SCALE .0125

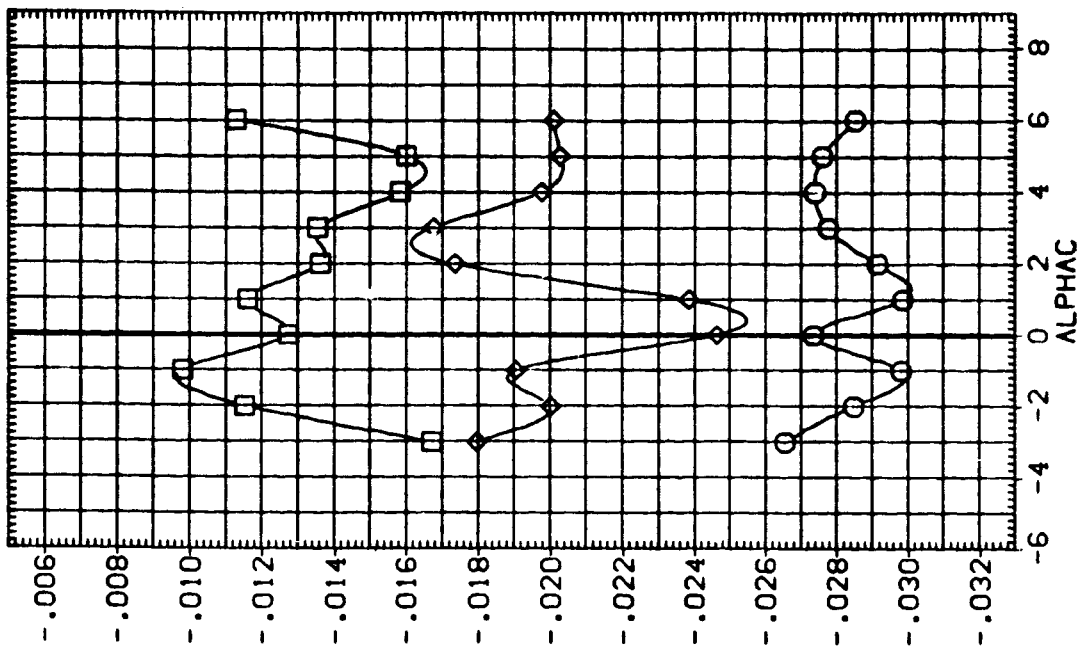


FIG.11 MATED (ORBITER + CARRIER) BASE AND CAVITY PRESSURES

(A)MACH = .60

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DATA SET SYMBOL (CE9033) ○ CONFIGURATION DESCRIPTION ARC14-080-1 CA23 747/1 05 AT1 (MATED)

STAB-C 5.000 RUD-C .000 ELV-0 .000 1-088 6.000
 REFERENCE INFORMATION
 SREF 5500.0000 SQ.FT.
 LREF 327.7800 IN.
 GREF 2348.0400 IN.
 XMRP 1339.9000 IN. MC
 YMRP .0000 IN. VC
 ZMRP 190.7500 IN. ZC
 SCALE .0125

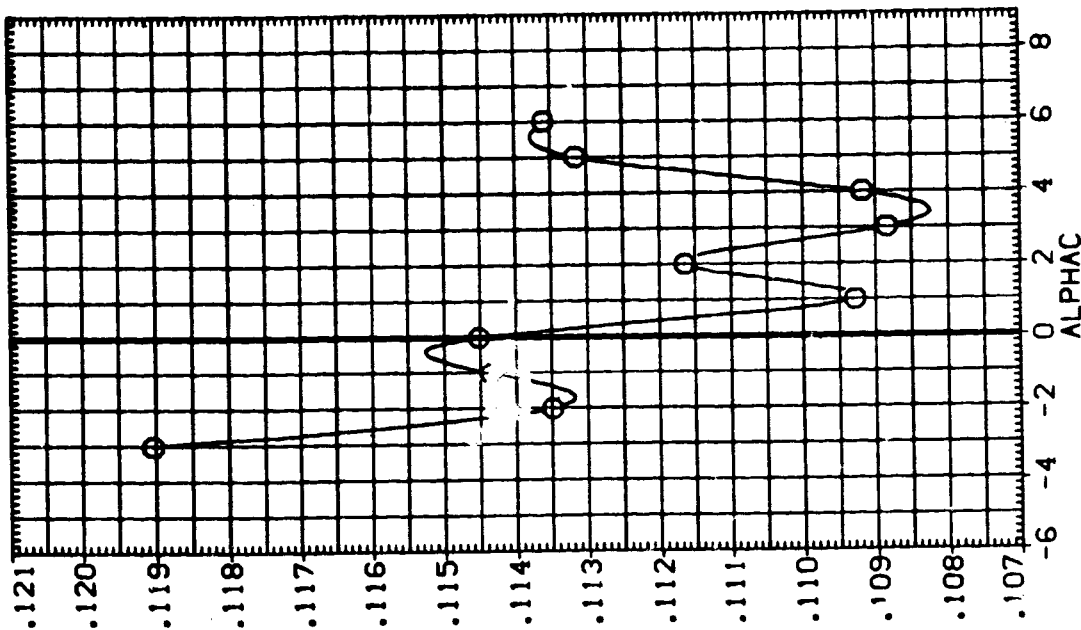
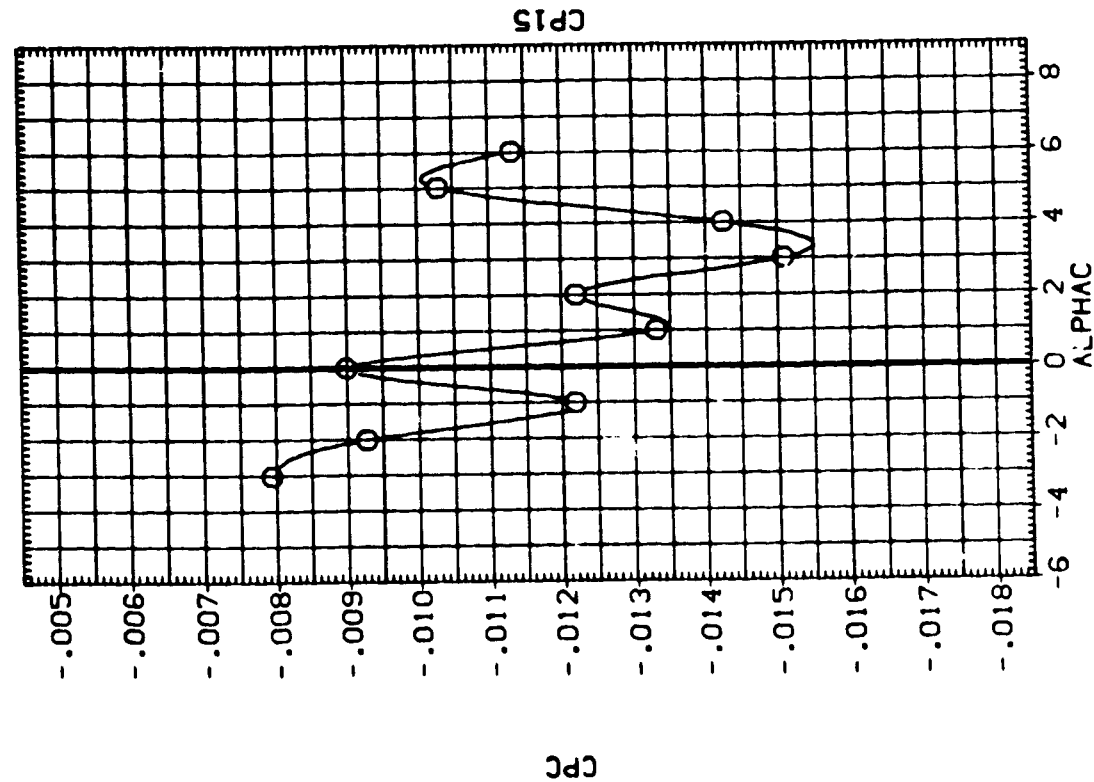


FIG.11 MATED (ORBITER + CARRIER) BASE AND CAVITY PRESSURES

(A) MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION STAB-C RUD-C ELV-B I-DBB REFERENCE INFORMATION

(CE9033) ○ ARC14-080-1 CA2J 747/1 05 AT1 (MATED)

SREF	5500.0000	IN.	50. FT.
LREF	327.7800	IN.	
BREF	2348.0400	IN.	
YHRP	1339.9000	IN.	YC
ZHRP	190.7500	IN.	ZC
SCALE			.0125

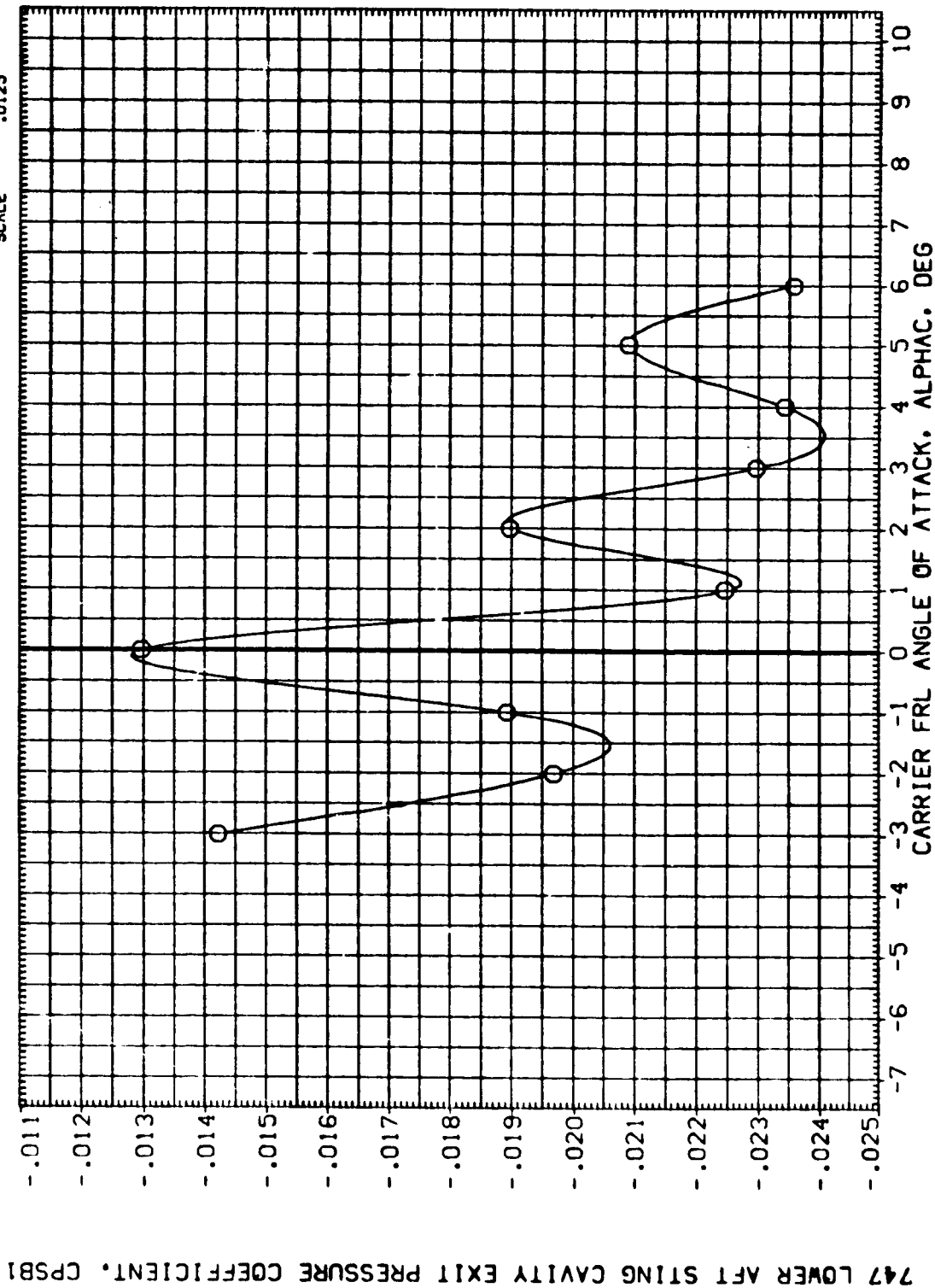


FIG.11 MATED (ORBITER + CARRIER) BASE AND CAVITY PRESSURES

CAIMACH = .60

DATA SET SYMBOL (CE9033) ○ CONFIGURATION DESCRIPTION ARC14-080-1 CA23 747/1 65 AT1 (MATED)

STAB-C 5.000 RUJ-C .000 ELV-0 .000 I-ORB 6.000

REFERENCE INFORMATION
 SREF 5500.0000 50.FT.
 LREF 327.7800 IN.
 BREF 2346.0400 IN.
 XMRP 1335.5000 IN.
 YMRP .0000 IN.
 ZMRP 190.7500 IN.
 SCALE .0125

ORBITER BASE PRESSURE COEFFICIENT, CP14

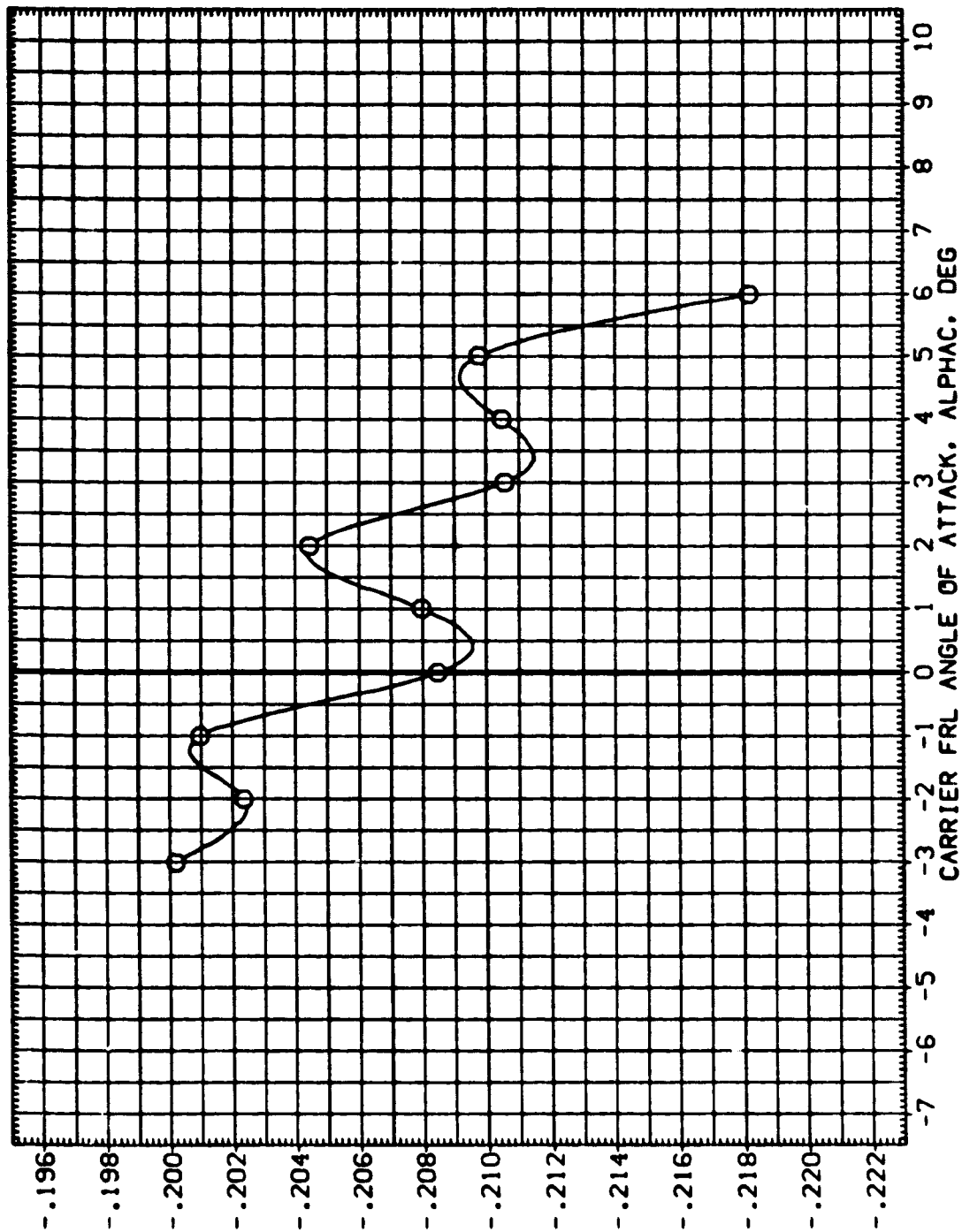


FIG.11 MATED (ORBITER + CARRIER) BASE AND CAVITY PRESSURES

(A)MACH = .60



DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (CE9033) ○ ARC14-080-1 CA23 747/1 05 AT1 (MATED)

STAB-C RUD-C ELV-0 I-088
 5.000 .000 .000 6.000

REFERENCE INFORMATION
 SREF 5500.0000 SQ.FT.
 LREF 327.7800 IN.
 BREF 2348.0400 IN. XC
 XMRP 1339.9000 IN. YC
 YMRP .0000 IN. ZC
 ZMRP 190.7500 IN. ZC
 SCALE .0125

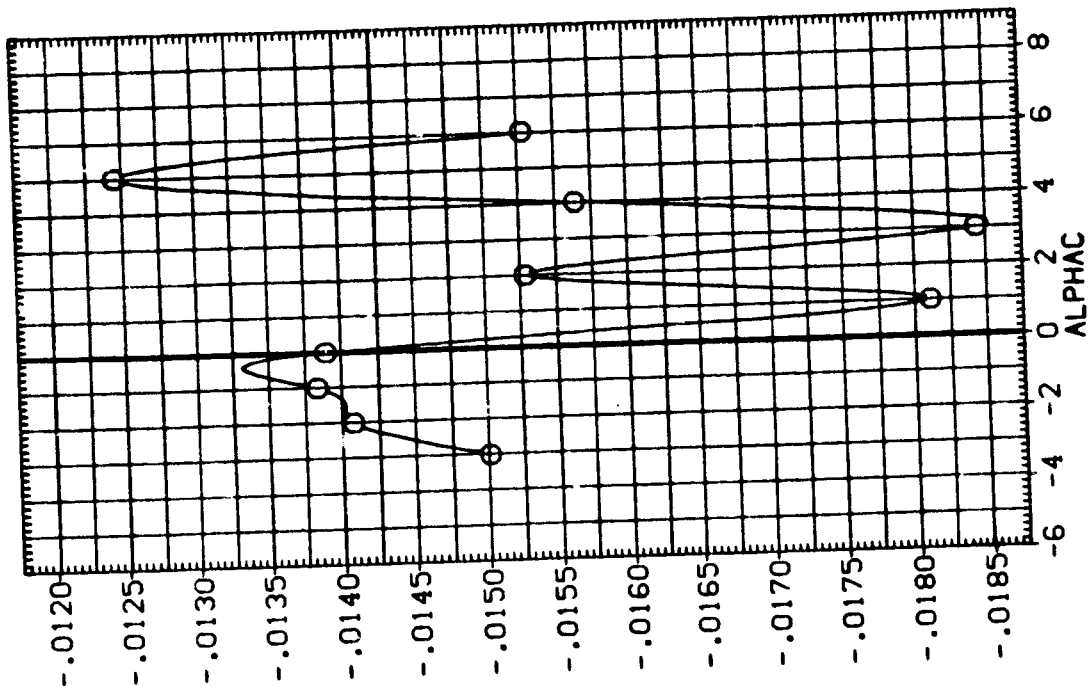
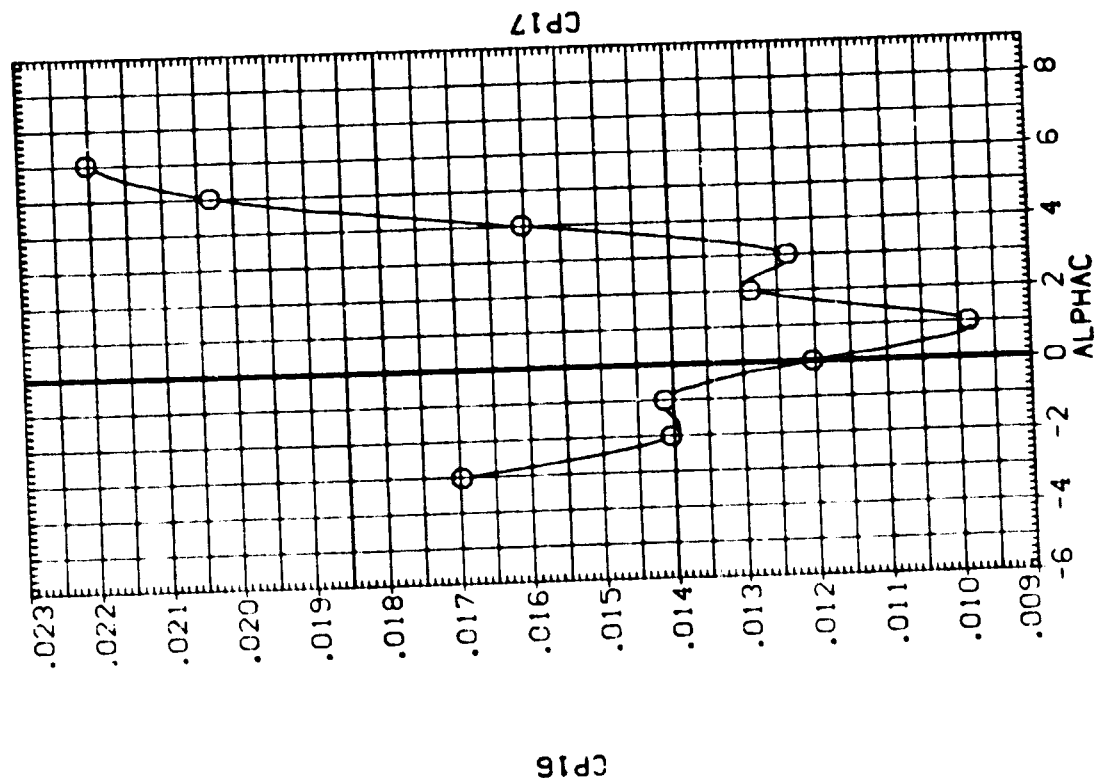


FIG.11 MATED (ORBITER + CARRIER) BASE AND CAVITY PRESSURES

(A) MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (CE9045) ARC14-080-1 CA23 747/1 01 AT1 (MATED)
 (CE9034) ARC14-080-1 CA23 747/1 01 AT1 (MATED)
 (CE9044) ARC14-080-1 CA23 747/1 01 AT1 (MATED)

STAB-C RUD-C ELV-0 I-088 REFERENCE INFORMATION
 -1.000 .000 .000 4.000 SREF 5500.0000 SO.FT.
 -1.000 .000 .000 6.000 LREF 377.7600 IN.
 -1.000 .000 .000 8.000 BREF 2348.0400 IN.
 XWRP 1339.5000 IN. VC
 YWRP 190.7500 IN. ZL
 SCALE .0125

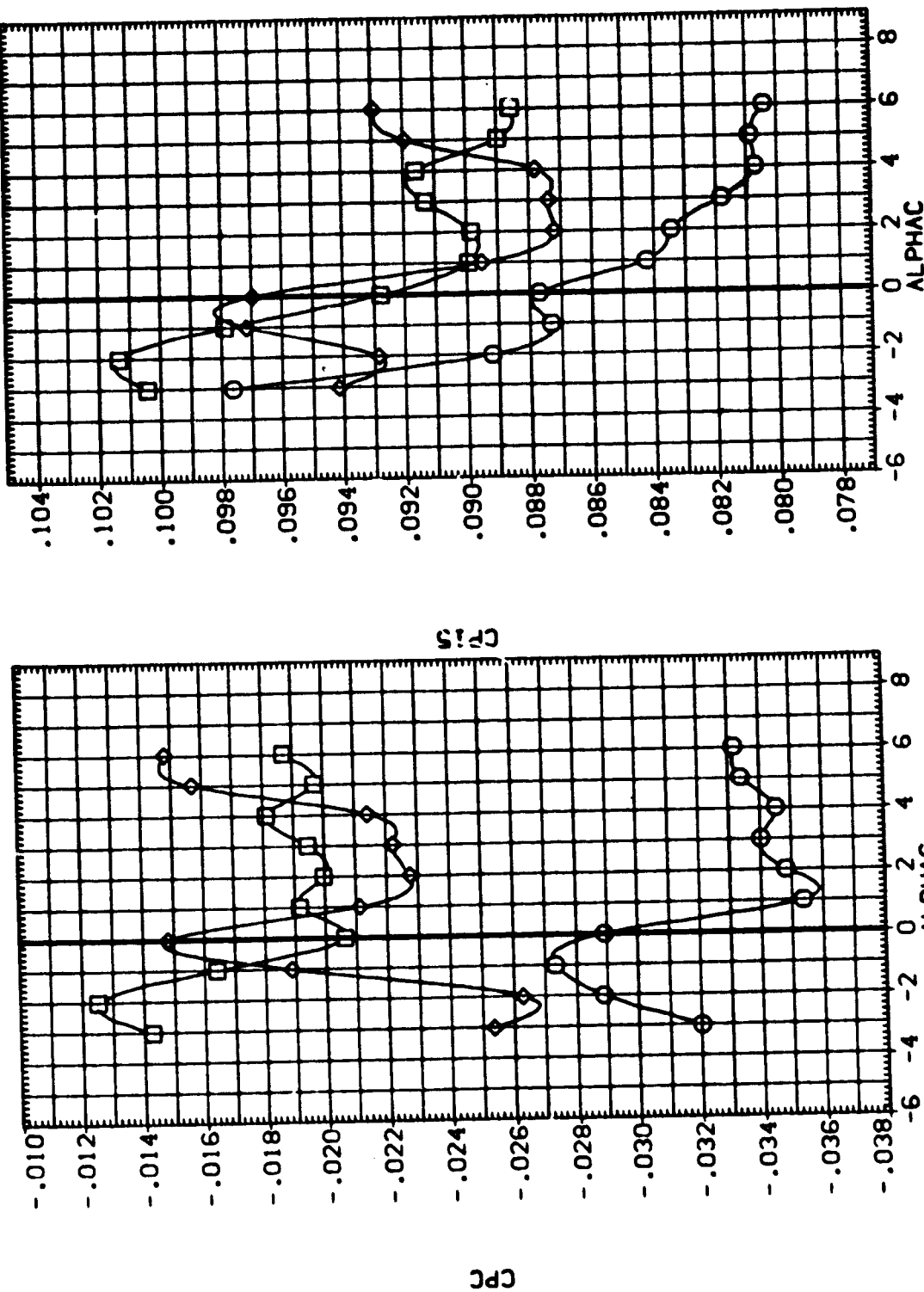


FIG.11 MATED (ORBITER + CARRIER) BASE AND CAVITY PRESSURES

(A)MACH = .60



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	STAB-C	RUD-C	ELV-0	1-ORB	REFERENCE INFORMATION
(CE5045)	AR214-080-1 CA23 747/1 01 AT1 (MATED)	-1.000	.000	.000	4.000	SREF 5500.0000 SO.FT.
(CE5046)	AR214-080-1 CA23 747/1 01 AT1 (MATED)	-1.000	.000	.000	6.000	LREF 327.7800 IN.
(CE5047)	AR214-080-1 CA23 747/1 01 AT1 (MATED)	-1.000	.000	.000	8.000	BREF 2348.0400 IN.
(CE5048)	AR214-080-1 CA23 747/1 01 AT1 (MATED)					XMRP 1339.9000 IN. XC
						YMRP 190.7500 IN. YC
						ZMRP 190.7500 IN. ZC
						SCALE .0125

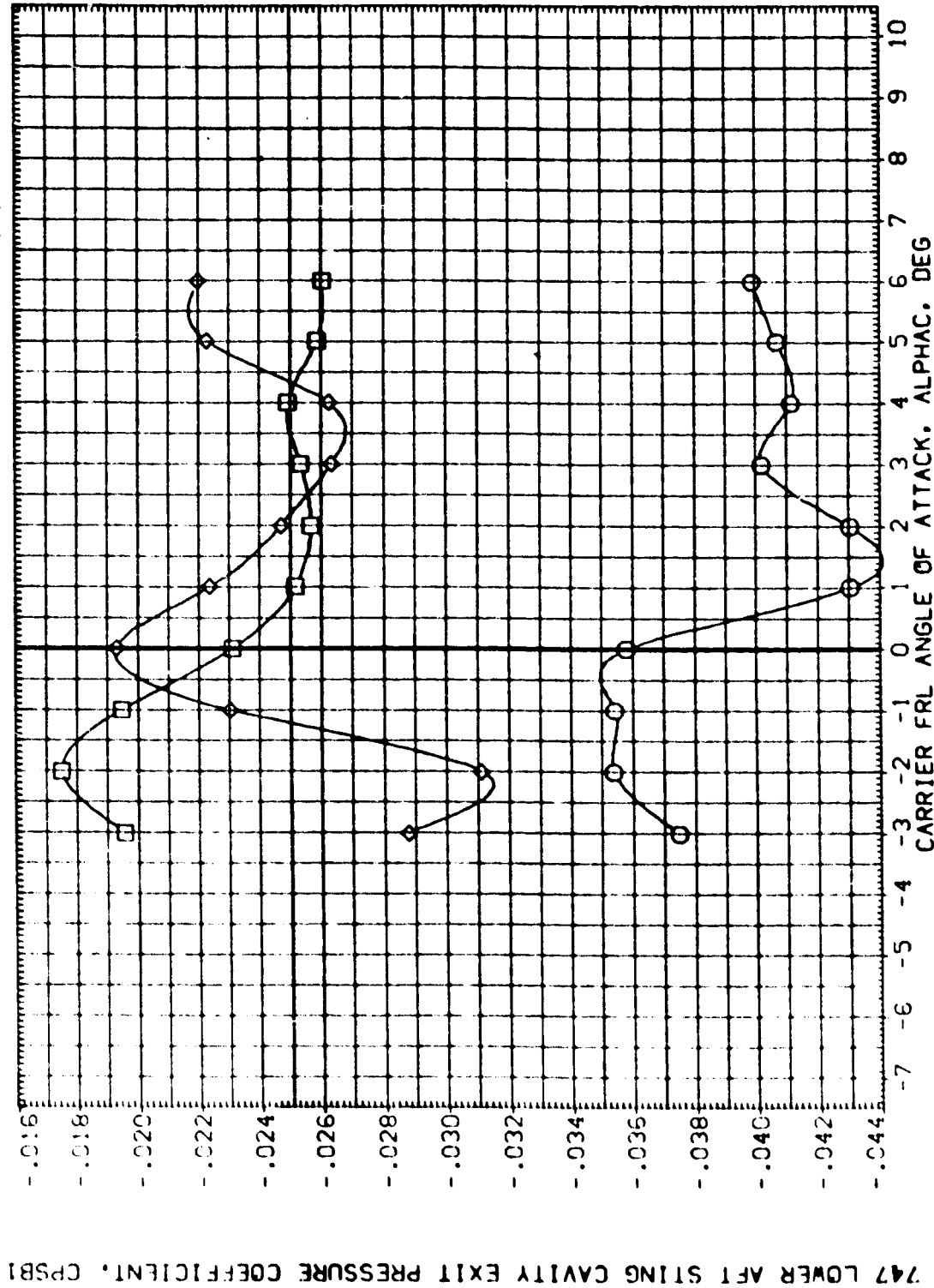


FIG.11 MATED (ORBITER + CARRIER) BASE AND CAVITY PRESSURES

(A) MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(CE9045) ARC14-080-1 CA23 747/1 01 AT1 (MATED)
 (CE9034) ARC14-080-1 CA23 747/1 01 AT1 (MATED)
 (CE9044) ARC14-080-1 CA23 747/1 01 AT1 (MATED)

STAB-C RUO-C ELV-0 I-000
 -1.000 .000 4.000
 -1.000 .000 6.000
 -1.000 .000 8.000

REFERENCE INFORMATION
 SREF 5500.0000 50.FT.
 LREF 327.7800 IN.
 BREF 2348.0400 IN.
 XMRP 1339.9000 IN. XC
 YMRP .0000 IN. YC
 ZMRP 190.7500 IN. ZC
 SCALE .0125

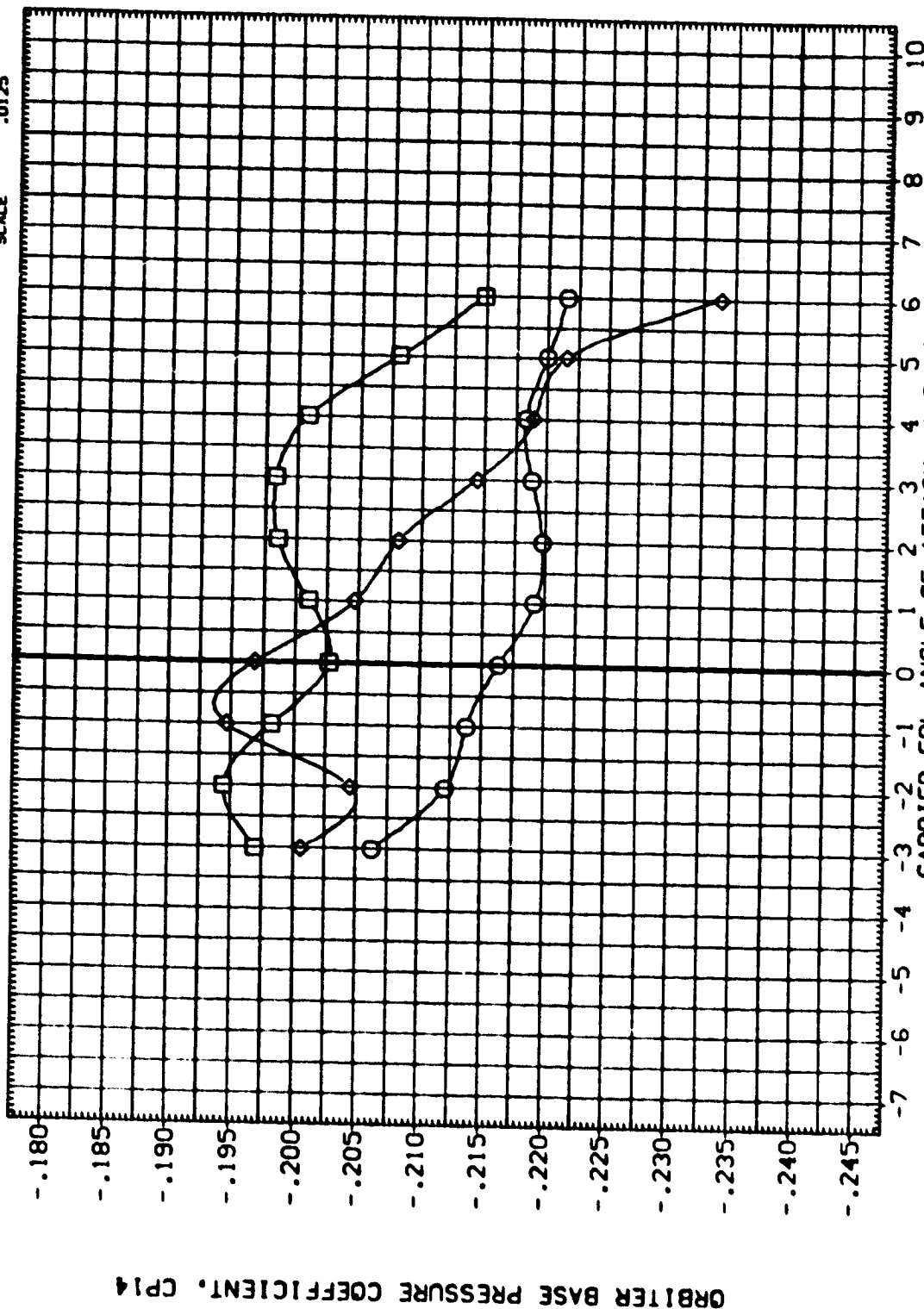


FIG.11 MATED (ORBITER + CARRIER) BASE AND CAVITY PRESSURES

(A)MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (CE9045) ARC14-080-1 CA23 747/1 01 AT1 (MATED)
 (CE9034) ARC14-080-1 CA23 747/1 01 AT1 (MATED)
 (CE9044) ARC14-080-1 CA23 747/1 01 AT1 (MATED)

STAB-C RUO-C ELV-0 I-ORR REFERENCE INFORMATION SQ.FT.
 -1.000 .000 .000 4.000 SREF 5500.0000 IN.
 -1.000 .000 .000 6.000 LREF 327.7800 IN.
 -1.000 .000 .000 8.000 BREF 2348.0400 IN.
 YMRP 1339.5000 IN. XC
 ZMRP .0000 IN. YC
 SCALE 190.7500 IN. ZC
 .0125

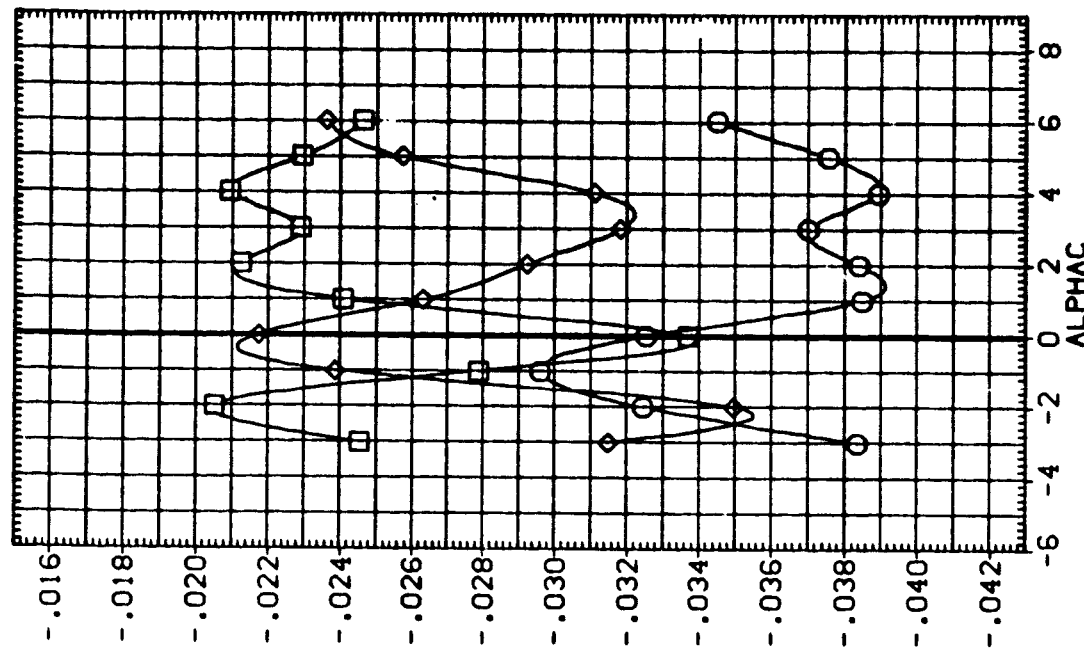
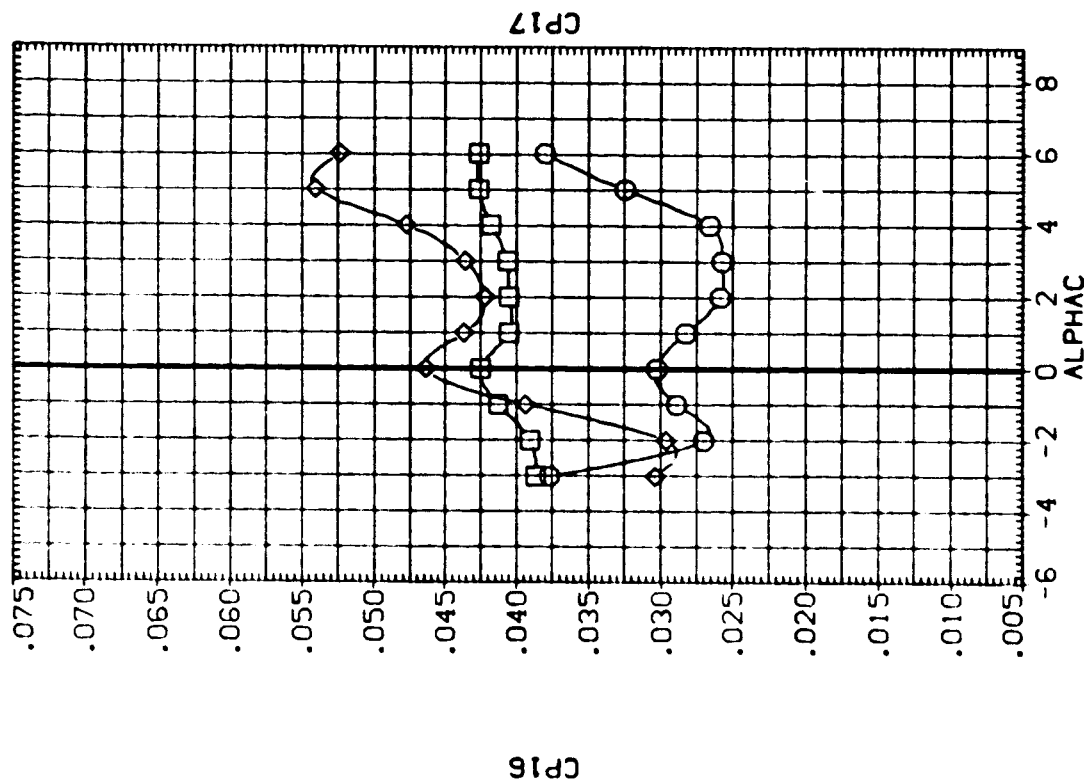


FIG.11 MATED (ORBITER + CARRIER) BASE AND CAVITY PRESSURES

(A)MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (CE9052) ARC14-080-1 CA23 747/1 01 AT1 (MATED)
 (CE9035) ARC14-080-1 CA23 747/1 01 AT1 (MATED)
 (CE9042) ARC14-080-1 CA23 747/1 01 AT1 (MATED)

STAB-C ELV-8 AIL-8 I-ORB
 5.000 5.000 -10.000 4.000
 5.000 5.000 -10.000 6.000
 5.000 5.000 -10.000 8.000

REFERENCE INFORMATION
 SREF 5500.0000 50.FT.
 LREF 327.7800 IN.
 BREF 2348.0400 IN.
 XMRP 1339.8000 IN. XC
 YMRP .0000 IN. YC
 ZMRP 190.7500 IN. ZC
 SCALE .0125

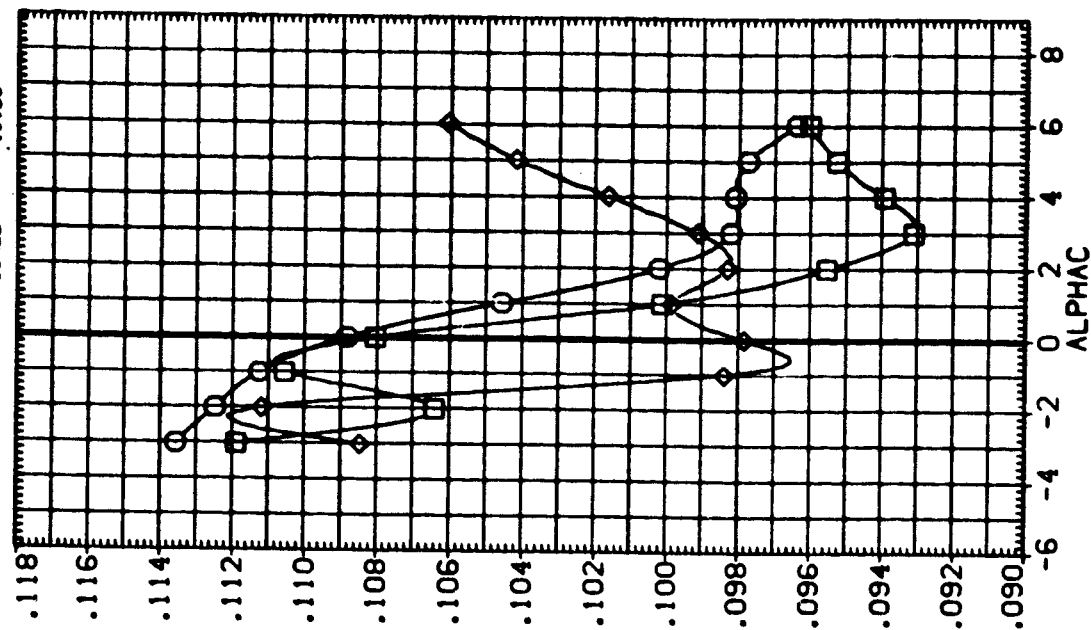
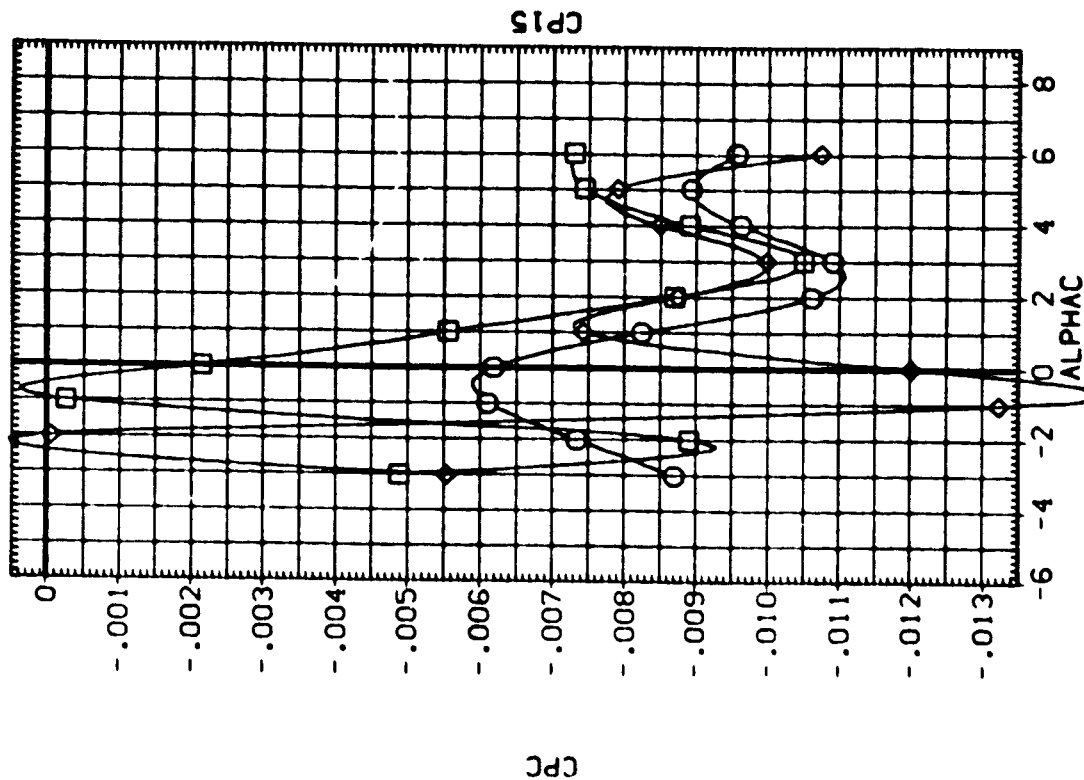


FIG.11 MATED (ORBITER + CARRIER) BASE AND CAVITY PRESSURES

(A)MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	STAB-C	ELV-0	AIL-0	I-ORB	REFERENCE INFORMATION
(GE902)	ARC14-080-1 CA23 747/1 01 AT1 (MATED)	5.000	5.000	-10.000	4.000	SREF 5500.0000 SQ.FT.
(GE903)	ARC14-080-1 CA23 747/1 01 AT1 (MATED)	5.000	5.000	-10.000	6.000	LREF 327.7800 IN.
(GE904)	ARC14-080-1 CA23 747/1 01 AT1 (MATED)	5.000	5.000	-10.000	8.000	BREF 2348.0400 IN.
						XMRP 1339.9000 IN. XC
						YMRP .0000 IN. YC
						ZMRP 190.7500 IN. ZC
						SCALE .0125

747 LOWER AFT STING CAVITY EXIT PRESSURE COEFFICIENT, CP_{SBI}

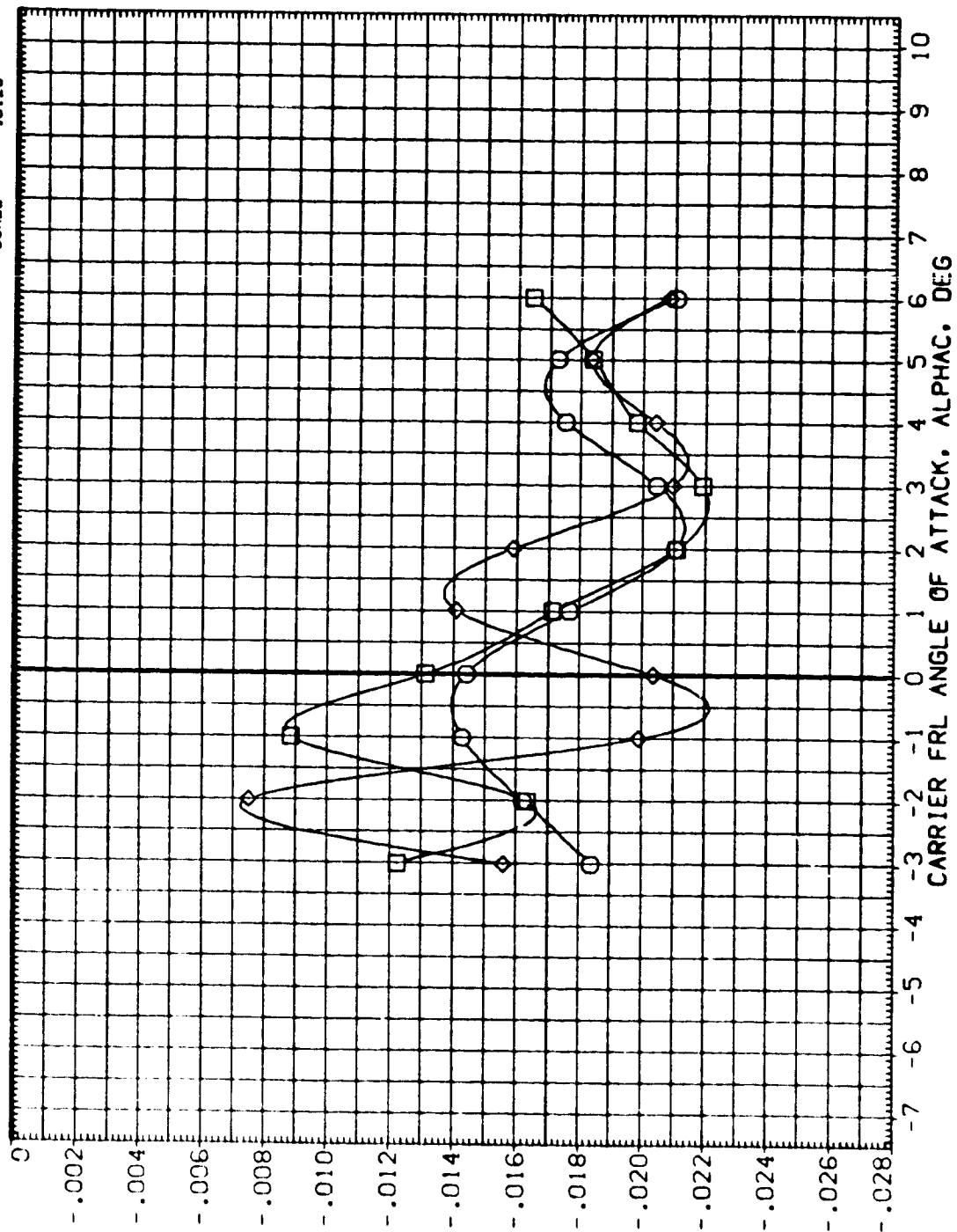


FIG.11 MATED (ORBITER + CARRIER) BASE AND CAVITY PRESSURES

(A)MACH = .60

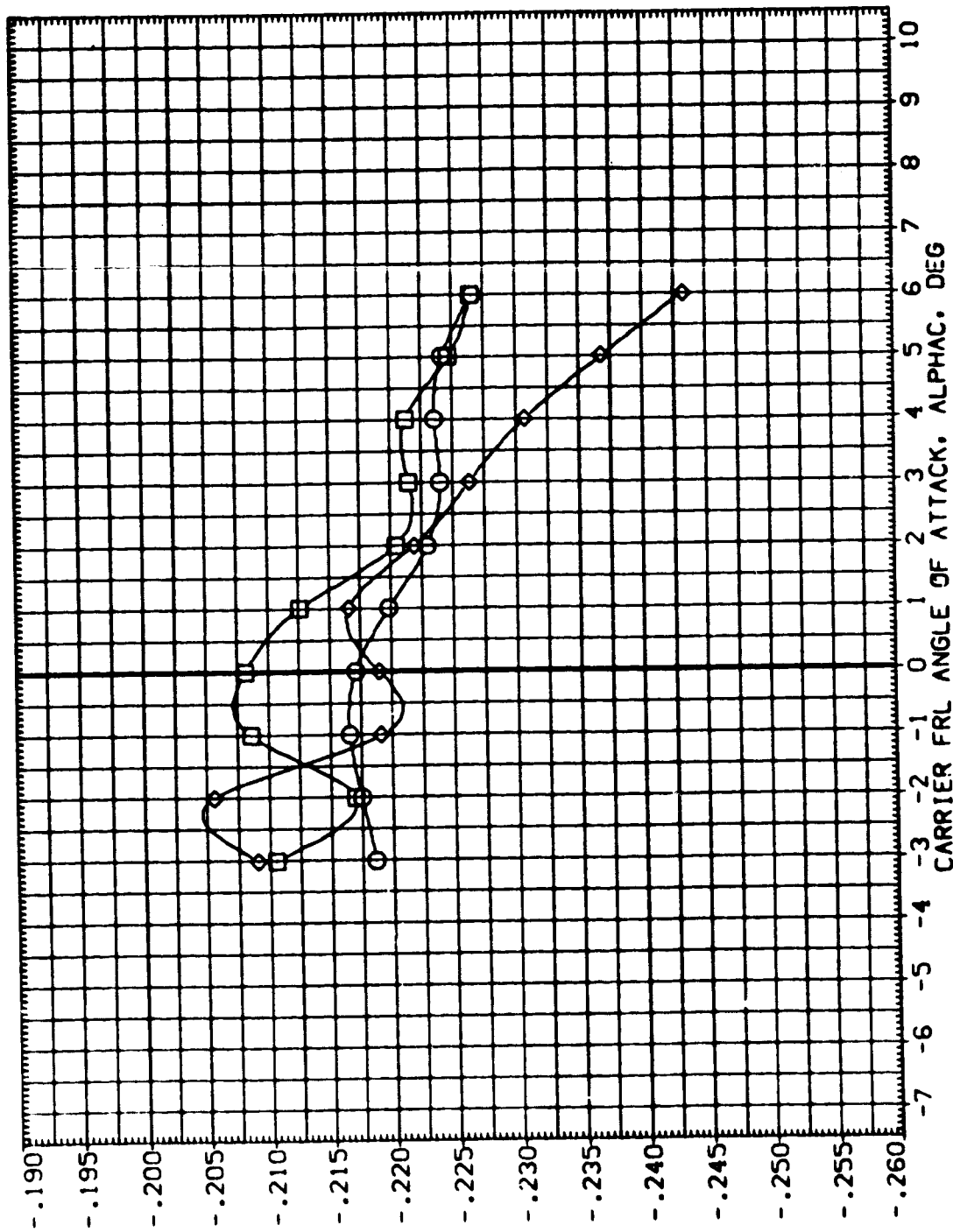
REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR

DATA SET SYMBOL
(CE9052)
(CE9033)
(CE9042)

CONFIGURATION DESCRIPTION
ARC14-080-1 CA23 747/1 01 AT1 (MATED)
ARC14-080-1 CA23 747/1 01 AT1 (MATED)
ARC14-080-1 CA23 747/1 01 AT1 (MATED)

STAB-C ELV-0 AIL-0 I-ORB
5.000 5.000 5.000 4.000
5.000 5.000 5.000 6.000
5.000 5.000 5.000 8.000




REFERENCE INFORMATION
SREF 5500.0000 SQ.FT.
LREF 327.7800 IN.
BREF 2348.0400 IN.
XMRP 1339.5000 IN. XC
YMRP .0000 IN. YC
ZMRP 190.7500 IN. ZC
SCALE .0125



ORBITER BASE PRESSURE COEFFICIENT, CP_{14}

FIG.11 MATED (ORBITER + CARRIER) BASE AND CAVITY PRESSURES

(A)MACH = .60

DATA SET SYMBOL:   
 CONFIGURATION DESCRIPTION
 ARC14-080-1 CA23 747/1 01 AT1 (MATED)
 ARC14-080-1 CA23 747/1 01 AT1 (MATED)
 ARC14-080-1 CA23 747/1 01 AT1 (MATED)

STAB-C ELV-0 AIL-0 I-ORB
 5.000 5.000 4.000
 5.000 -10.000 6.000
 5.000 -10.000 6.000

REFERENCE INFORMATION
 SREF 5500.0000 SQ.FT.
 LREF 327.7800 IN.
 BREF 2348.0400 IN.
 XMRP 1339.9000 IN.
 YMRP .0000 IN.
 ZMRP 190.7500 IN.
 SCALE .0125

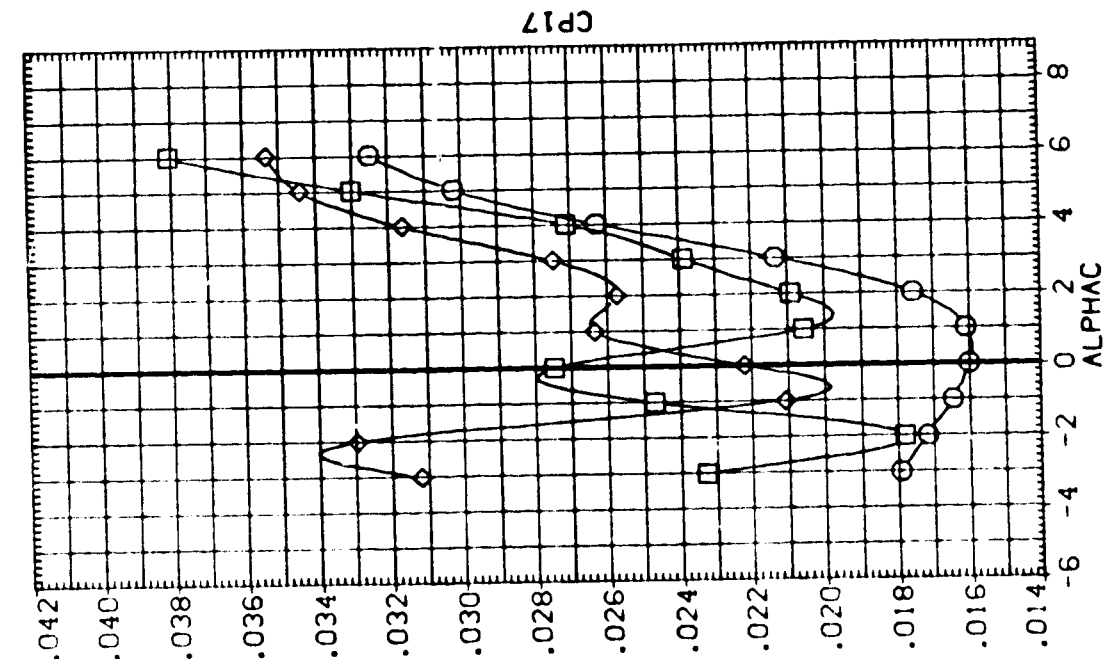
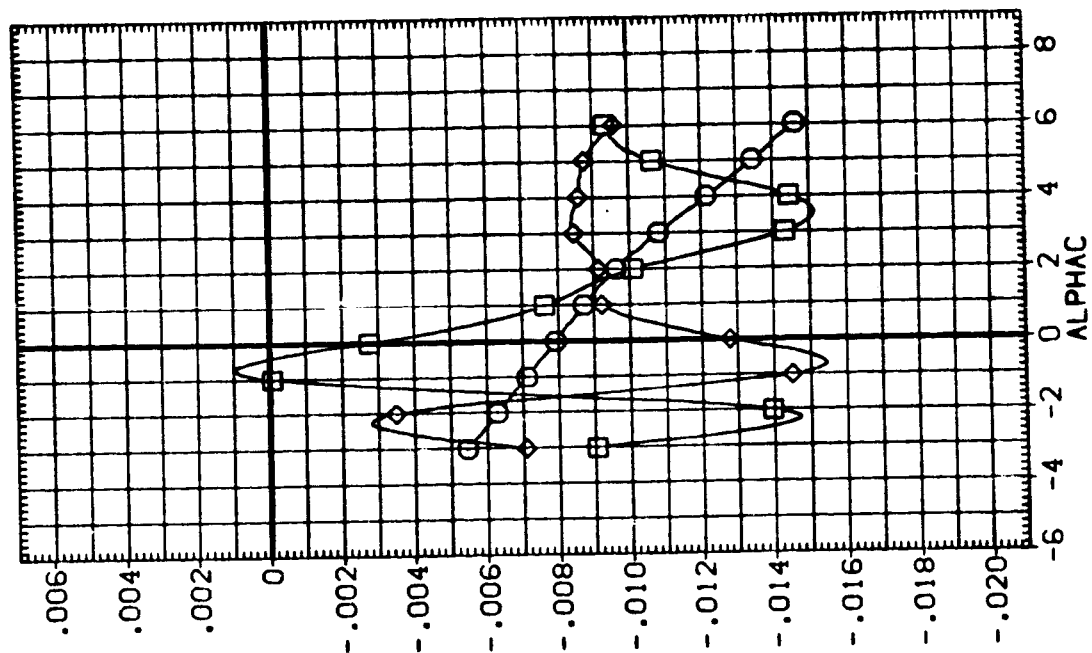


FIG.11 MATED (ORBITER + CARRIER) BASE AND CAVITY PRESSURES

(A)MACH = .60

DATA SET SYMBOL (CE9036) \bigcirc CONFIGURATION DESCRIPTION ARC14-080-1 CA23 747/1 01 AT1 (MATED)

STAB-C ELV-0 5.000 RUO-0 10.000 I-ORB 6.000
 SREF 5500.0000 SQ.FT.
 LREF 327.7800 IN.
 BREF 2348.0400 IN.
 XMRP 1339.9000 IN.
 YMRP 190.7500 IN.
 ZMRP 190.7500 IN.
 SCALE .0125

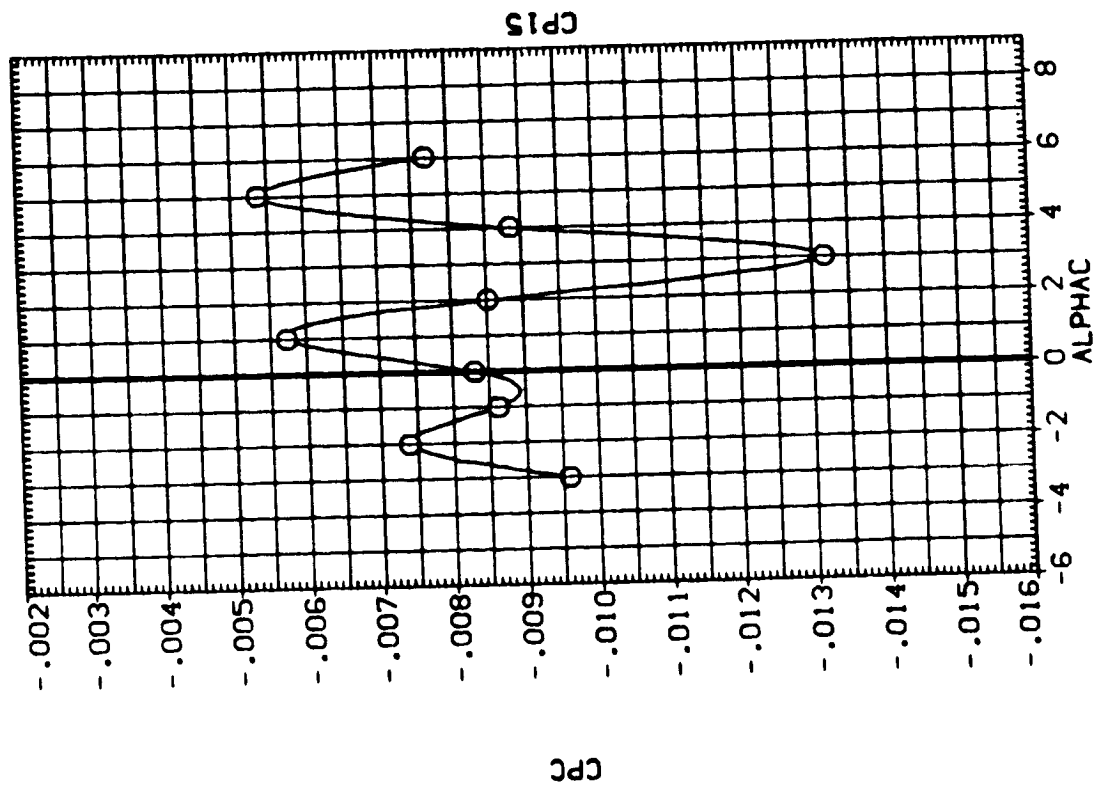


FIG.11 MATED (ORBITER + CARRIER) BASE AND CAVITY PRESSURES

(A)MACH = .60



DATA SET SY-801
(CE9036)

CONFIGURATION DESCRIPTION
ARC 14-080-1 CA23 747/1 01 AT1 (MATED)

STAB-C 5.000
ELV-0 5.000
RUD-0 10.000
I-OR8 6.000

REFERENCE INFORMATION
SREF 5500.0000 SQ.FT.
LREF 327.7800 IN.
BREF 2348.0400 IN. XC
XMRP 1339.5000 IN. YC
YMRP .0000 IN. ZC
ZMRP 190.7500 IN. ZC
SCALE .0125

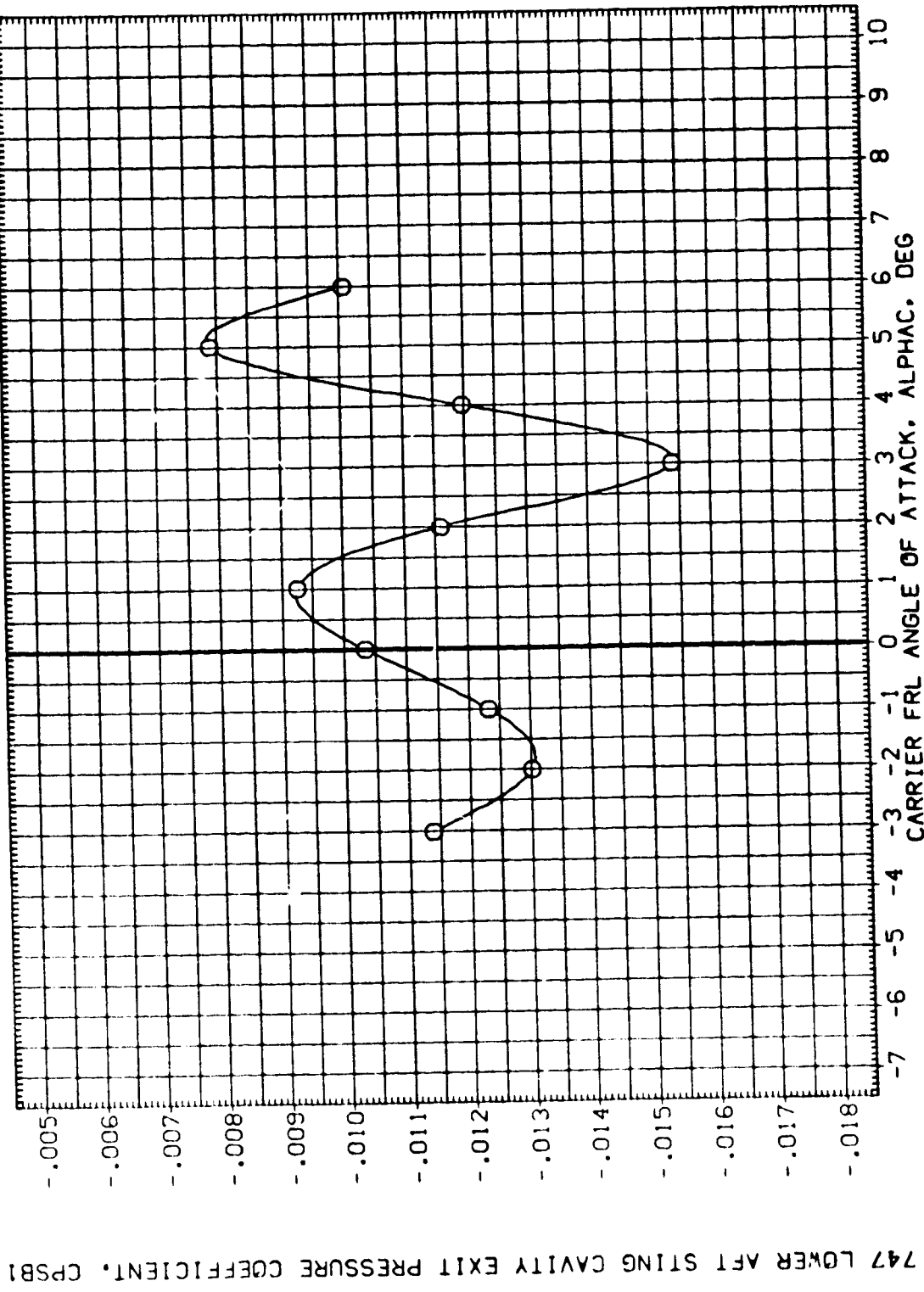


FIG.11 MATED (ORBITER + CARRIER) BASE AND CAVITY PRESSURES

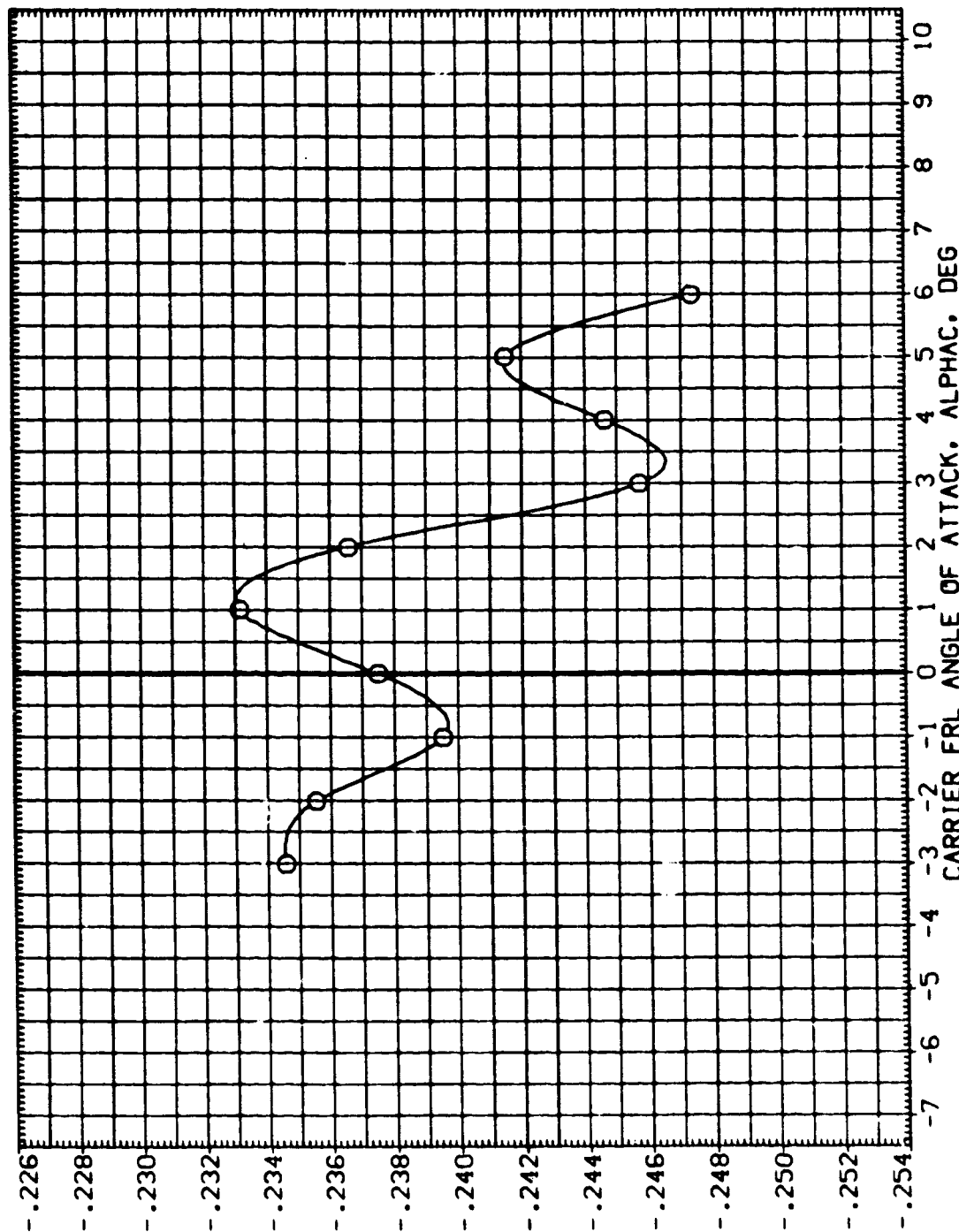
(A)MACH = .60

DATA SET SYMBOL (CE9036) ○

CONFIGURATION DESCRIPTION
ARC14-080-1 CA23 747/1 01 AT1 (MATED)

STAB-C 5.000
ELV-0 5.000
RUD-0 10.000
I-088 6.000

REFERENCE INFORMATION
SREF 5500.0000 SO.FT.
LREF 327.7800 IN.
BREF 2348.0400 IN.
YMRP 1339.9000 IN.
ZMRP 190.7500 IN.
SCALE .0125



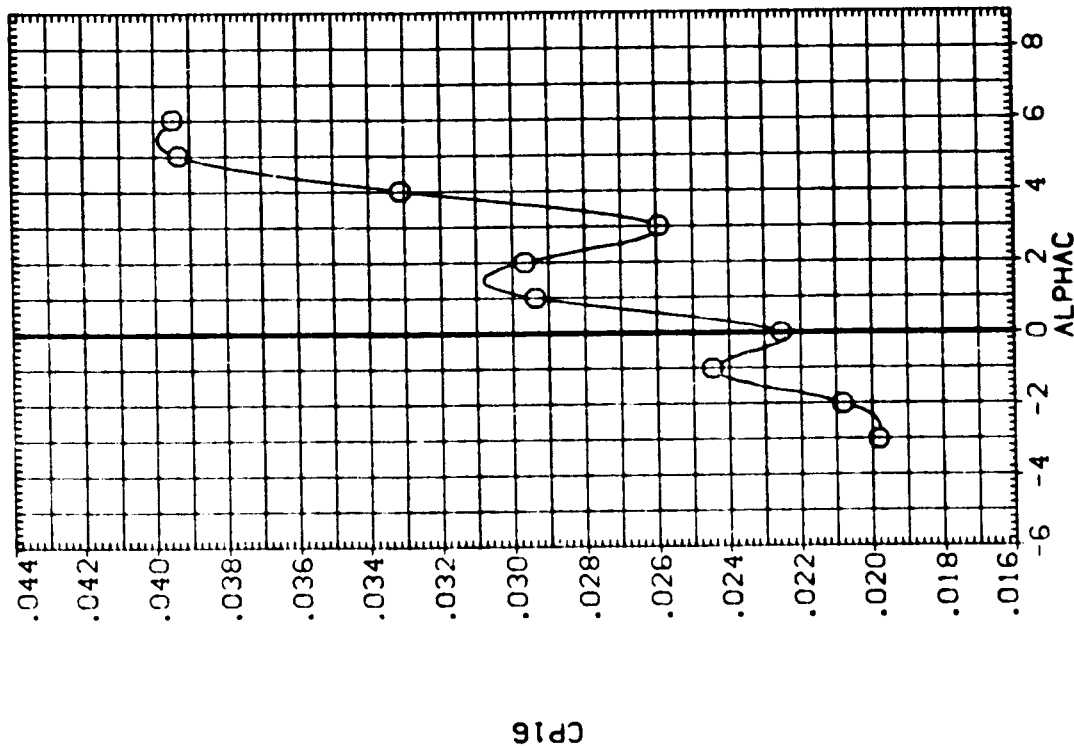
ORBITER BASE PRESSURE COEFFICIENT, CP14

FIG.11 MATED (ORBITER + CARRIER) BASE AND CAVITY PRESSURES

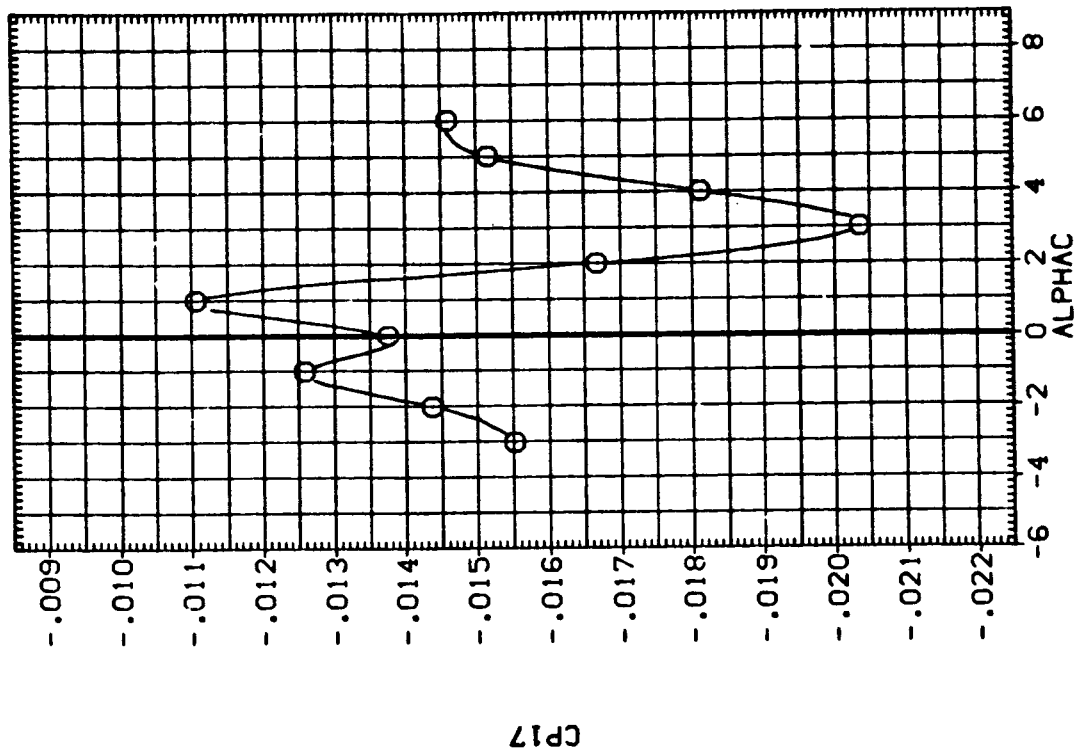
(A)MACH = .60

DATA SET SYMBOL (CE9036) \bigcirc CONFIGURATION DESCRIPTION ARC: 4-080-1 CA23 747/1 01 AT1 (MATED)

STAB-C ELV-0 5.000 5.000 1-ORB 6.000
 RUO-0 10.000
 REFERENCE INFORMATION
 SREF 5500.0000 SQ. FT.
 LREF 327.7800 IN.
 BREF 2348.0400 IN.
 XMRP 1339.9000 IN.
 YMRP .0000 IN.
 ZMRP 190.7500 IN.
 SCALE .0125



CP16



CP17

FIG.11 MATED (ORBITER + CARRIER) BASE AND CAVITY PRESSURES

(A) MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (CE9053) ARC14-080-1 CA23 747/1(-SI-S12)01 AT1(MATED)
 (CE9054) ARC14-080-1 CA23 747/1(-SI-S12)01 AT1(MATED)

STAB-C RUO-C ELV-O I-ORR
 5.000 .000 5.000 5.000
 5.000 .000 5.000 8.000

REFERENCE INFORMATION
 SREF 5500.0000 SQ.FT.
 LREF 327.7800 IN.
 BREF 2348.0400 IN.
 XMRP 1335.8000 IN. MC
 YMRP .0000 IN. VC
 ZMRP 190.7500 IN. ZC
 SCALE .0125

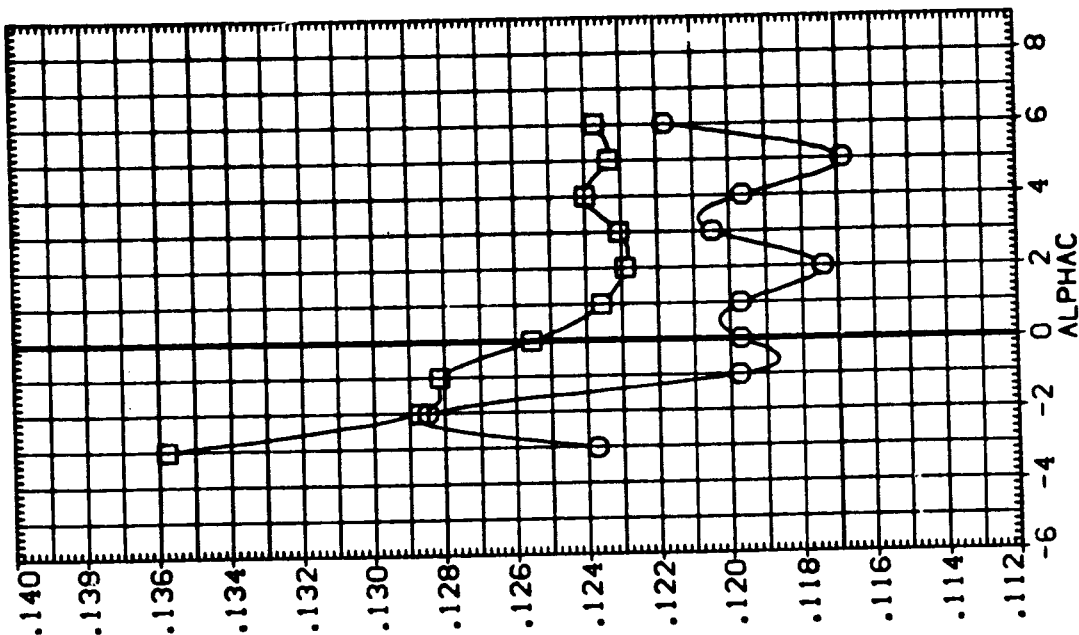
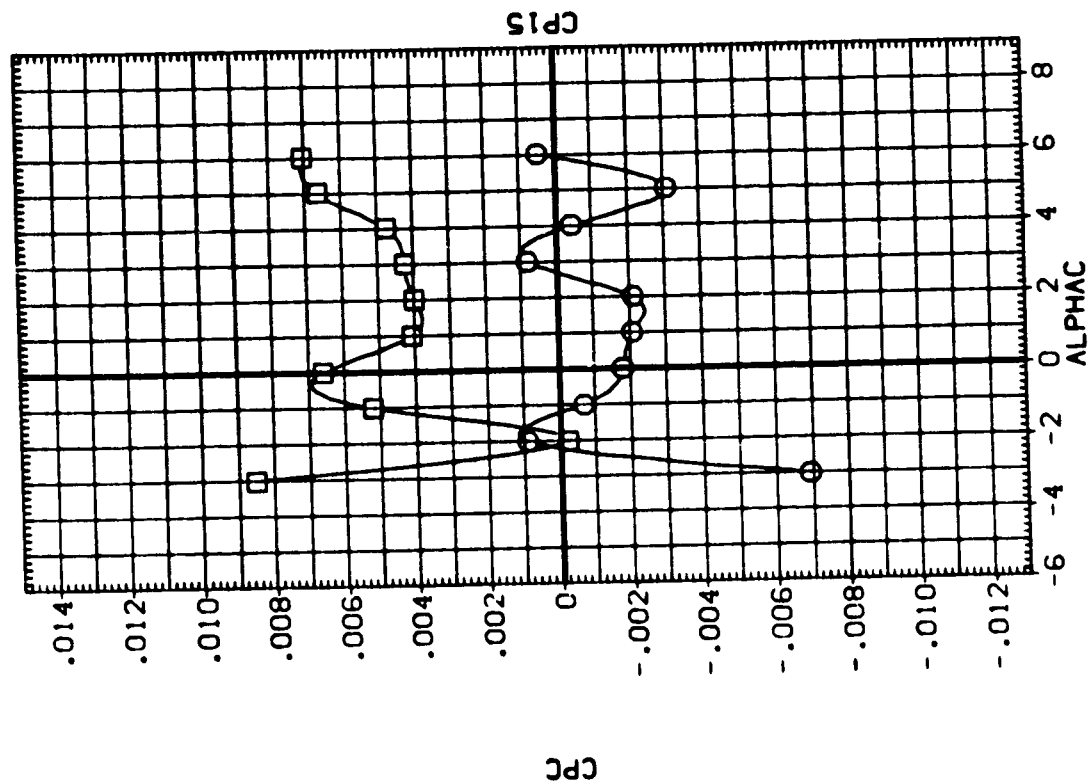


FIG.11 MATED (ORBITER + CARRIER) BASE AND CAVITY PRESSURES

(A)MACH = .60



DATA SET SYMBOL: (CE9053) (CE9054)

CONFIGURATION DESCRIPTION:
ARC14-C80-1 CA23 747/1C-S1-S12101 AT1(MATED)
ARC14-C80-1 CA23 747/1C-S1-S12101 AT1(MATED)

STAB-C: 5.000
RUD-C: .000
ELV-0: 5.000
I-ORB: 6.000
8.000

REFERENCE INFORMATION:
SREF: 5500.0000 SQ. FT.
LREF: 327.7800 IN.
BREF: 2348.0400 IN.
XMRP: 1339.9000 IN. XC
YMRP: .0000 IN. YC
ZMRP: 190.7500 IN. ZC
SCALE: .0125

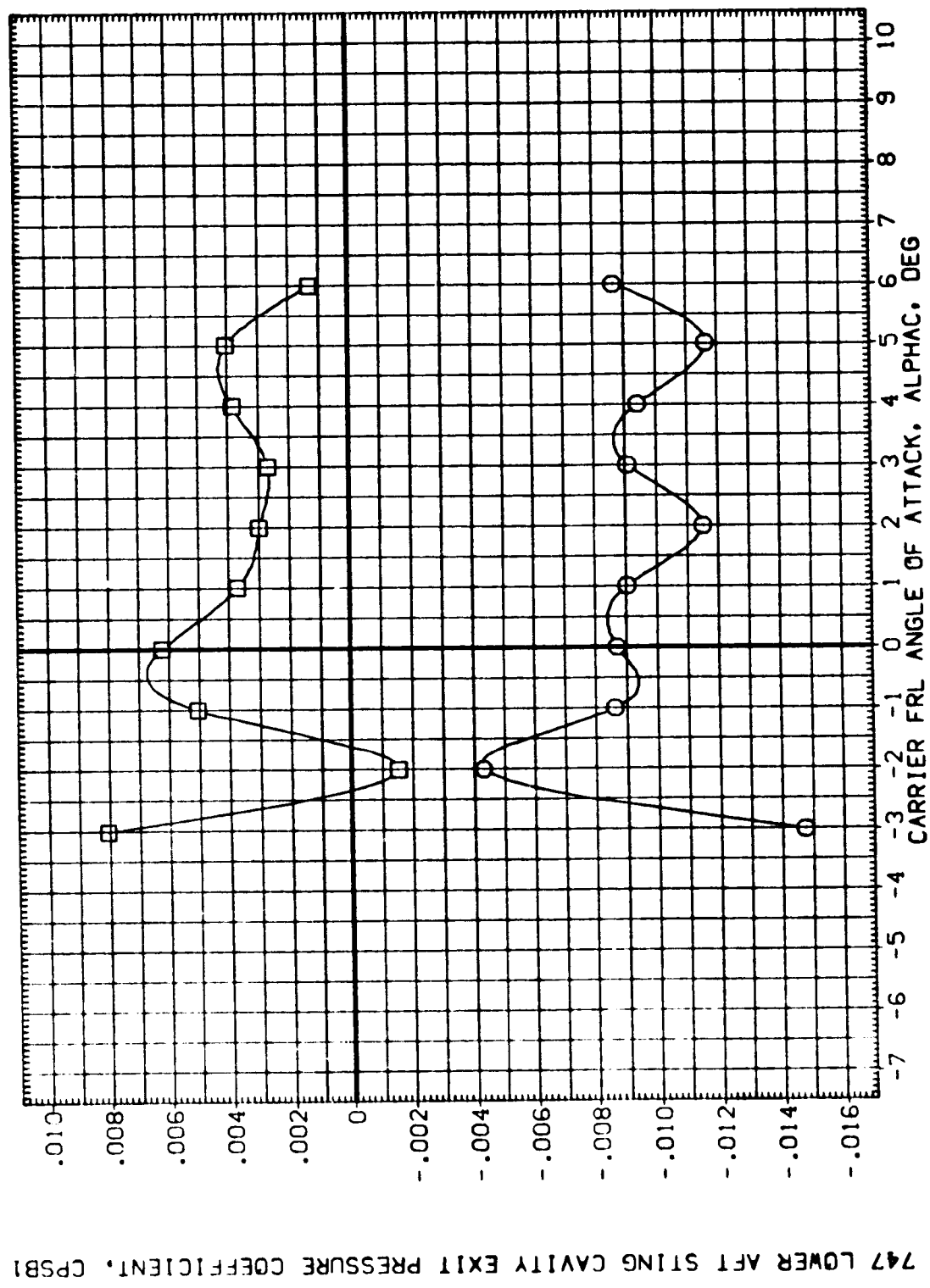


FIG.11 MATED (ORBITER + CARRIER) BASE AND CAVITY PRESSURES

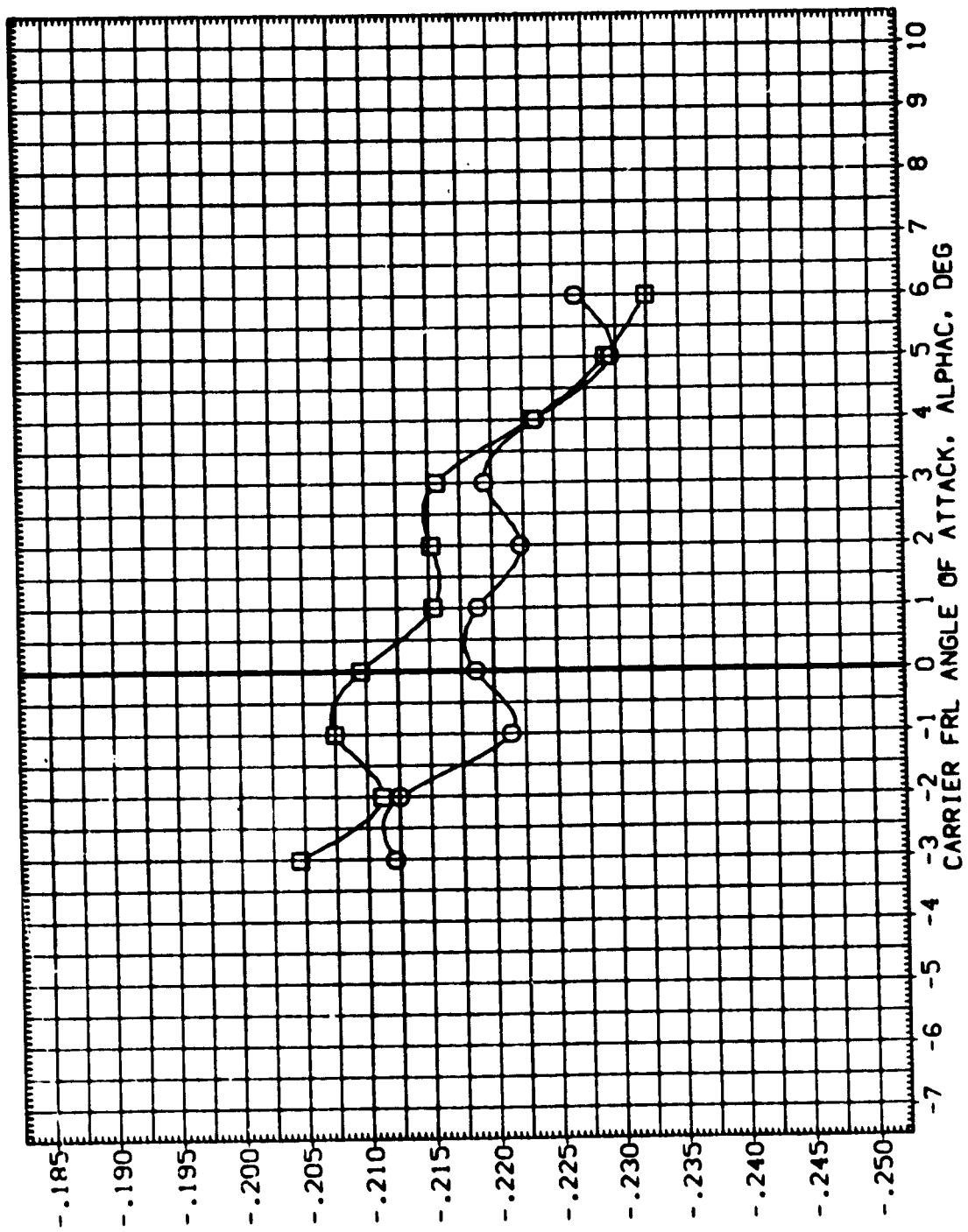
(A)MACH = .60

DATA SET SYMBOL
(CE9053)
(CE9054)

CONFIGURATION DESCRIPTION
ARC14-080-1 CA23 747/1(-S1-S12)01 AT1(MATED)
ARC14-080-1 CA23 747/1(-S1-S12)01 AT1(MATED)

STAB-C RUO-C ELV-0 I-000
5.000 .000 5.000 6.000
5.000 .000 5.000 6.000

REFERENCE INFORMATION
SREF 5500.0000 SO.FT.
LREF 327.7800 IN.
BREF 2348.0400 IN.
XMRP 1339.5000 IN. MC
YMRP .0000 IN. VC
ZMRP 190.7500 IN. ZC
SCALE .0125



ORBITER BASE PRESSURE COEFFICIENT, CP14

FIG.1.1 MATED (ORBITER + CARRIER) BASE AND CAVITY PRESSURES

(A)MACH = .60



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	STAB-C	RUD-C	ELV-0	I-ORB	REFERENCE INFORMATION
(CE9053)	ARC14-080-1 CA23 747/1(-S1-S12)01 AT1(MATED)	5.000	.000	5.000	6.000	SREF 5500.0000 SQ.FT.
(CE9054)	ARC14-080-1 CA23 747/1(-S1-S12)01 AT1(MATED)	5.000	.000	5.000	8.000	LREF 327.7800 IN.
						BREF 2348.0400 IN.
						XMRP 1339.9000 IN. XC
						YMRP .0000 IN. YC
						ZMRP 190.7500 IN. ZC
						SCALE .0125

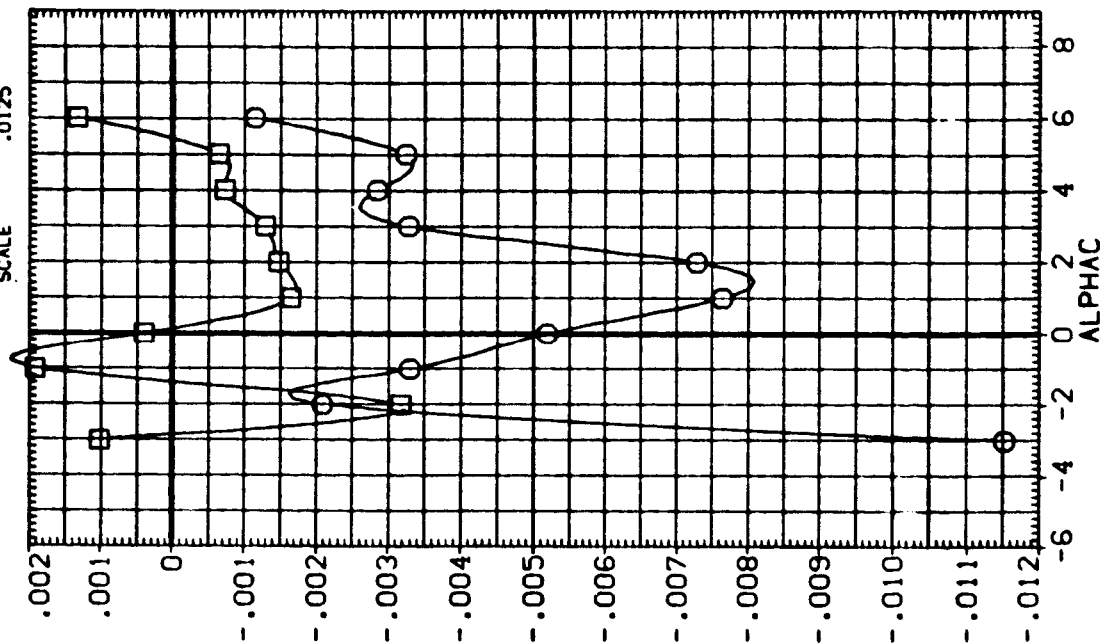
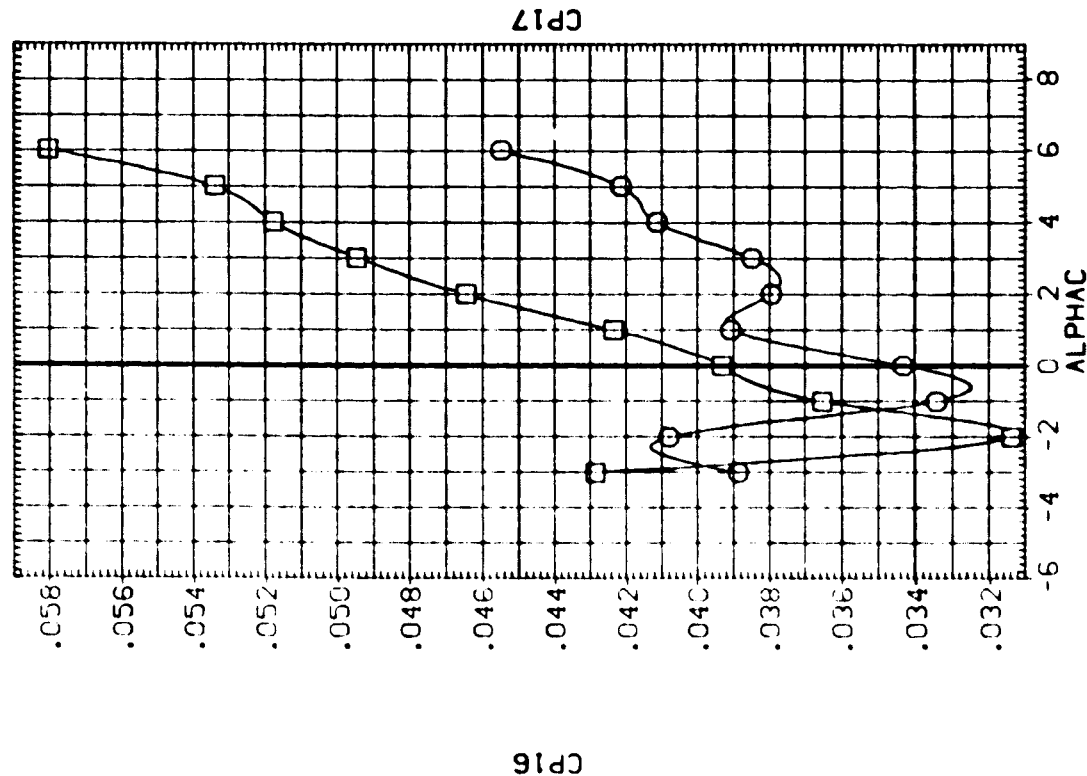


FIG.11 MATED (ORBITER + CARRIER) BASE AND CAVITY PRESSURES

(A) MACH = .60

DATA SET SYMBOL (CE9055) \odot CONFIGURATION DESCRIPTION ARC14-080-1 CAZJ 747/1(-S1-S12)05 AT1(MATED)

STAB-C 5.000 RUD-C .000 ELV-0 5.000 I-ORB 8.000
 REFERENCE INFORMATION
 SREF 5500.0000 SQ.FT.
 LREF 327.7800 IN.
 BREF 2348.0400 IN.
 XMRP 1339.5000 IN.
 YMRP 190.7500 IN.
 ZMRP 190.7500 IN.
 SCALE .0125

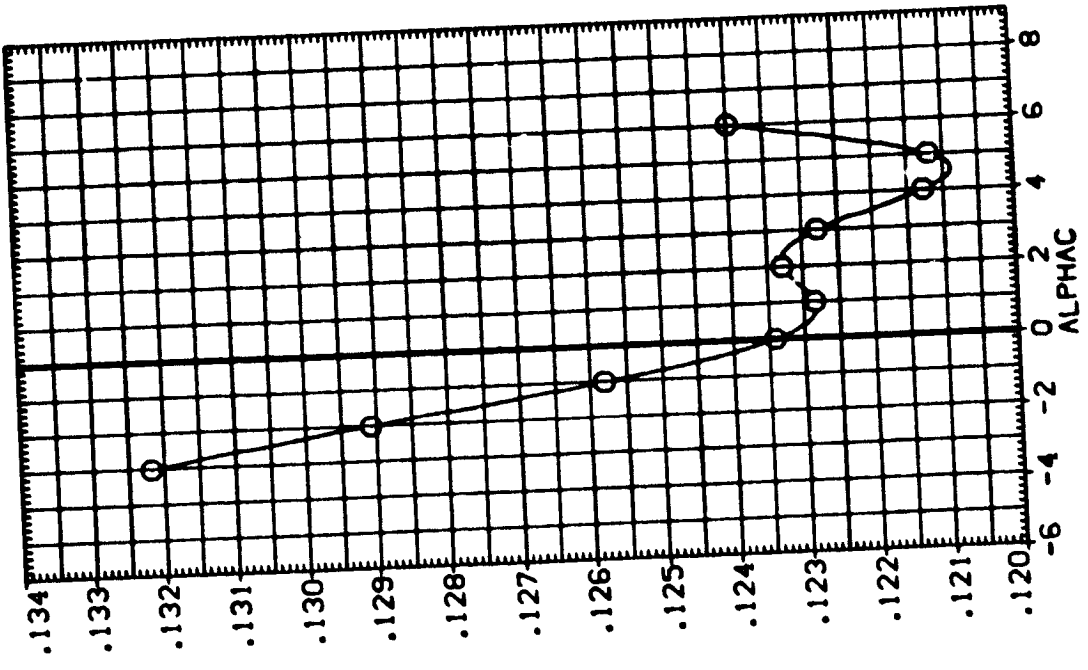
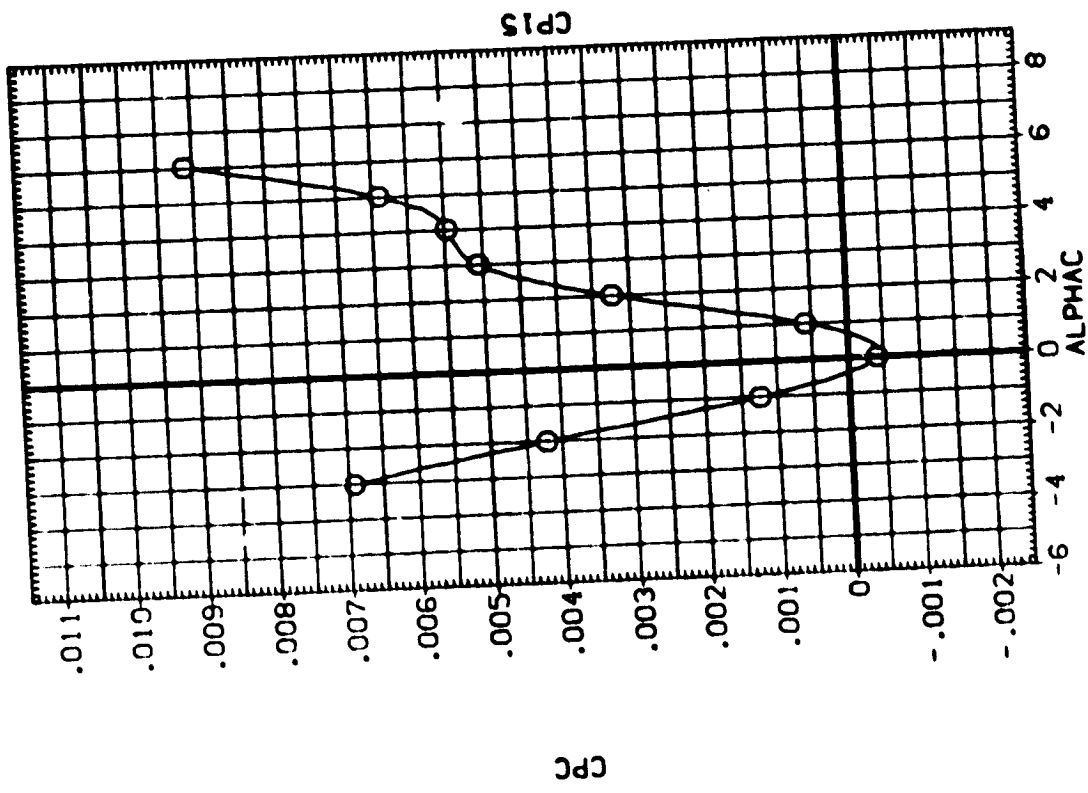


FIG.11 MATED (ORBITER + CARRIER) BASE AND CAVITY PRESSURES

(A)MACH = .60

CONTRACT NUMBER	CONTRACT DESCRIPTION
WAFB-4-000-1	CP23 747/1(-S1-S12)05 AT(MATED)

STAB-C	RUD-C	ELV-0	1-008
5.000	.000	5.000	0.000

REFERENCE INFORMATION	
SREF	5500.0000
LREF	327.7800
BREF	2348.0400
XMRP	1339.9000
YMRP	.0000
ZMRP	190.7500
SCALE	.0125

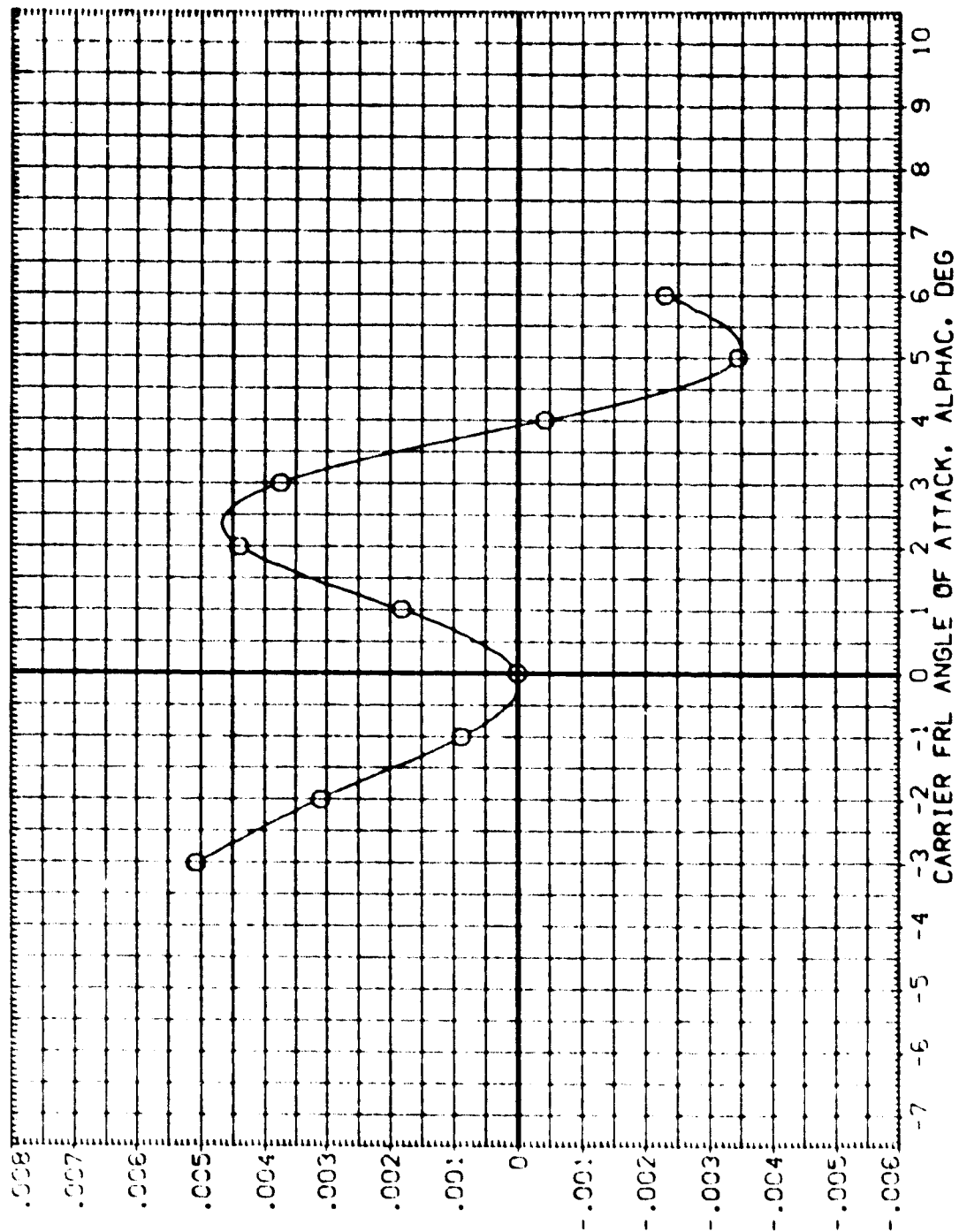


FIG. 11 WATER (GRBITER + CARRIER) BASE AND CAVITY PRESSURES

(A) HACH

" "

ES.

DATA SET SYMBOL (CE9055) \bigcirc CONFIGURATION DESCRIPTION ARC14-080-1 CA23 747/1(-S1-S12)65 AT1(MATED)

STAB-C RUO-C ELV-0 1-088 5.000 8.000

REFERENCE INFORMATION
 SREF 5500.0000 SQ.FT.
 LREF 327.7800 IN.
 BREF 2348.0400 IN.
 XMRP 1339.8000 IN.
 YMRP 190.7500 IN.
 ZMRP 190.7500 IN.
 SCALE .0125

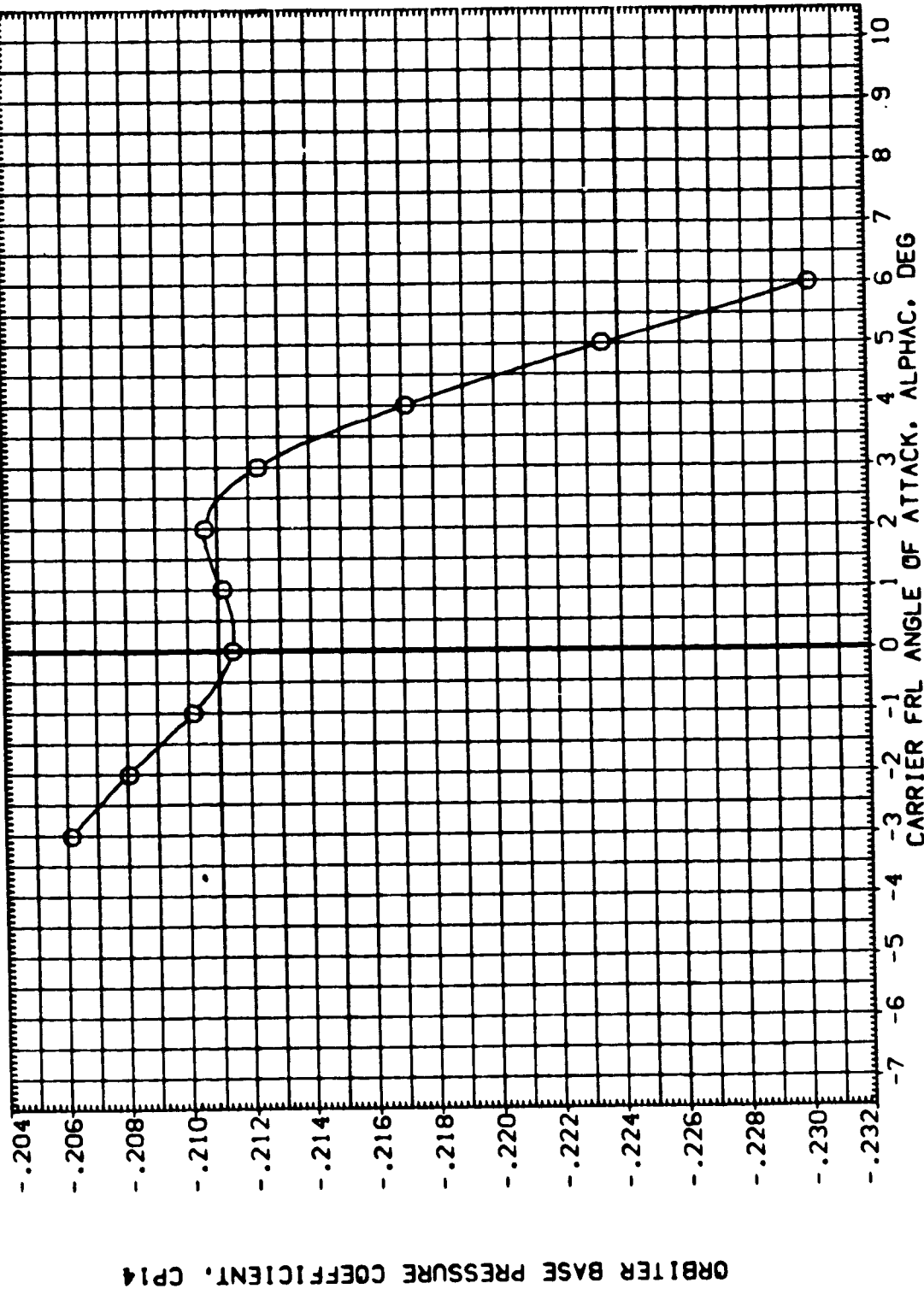
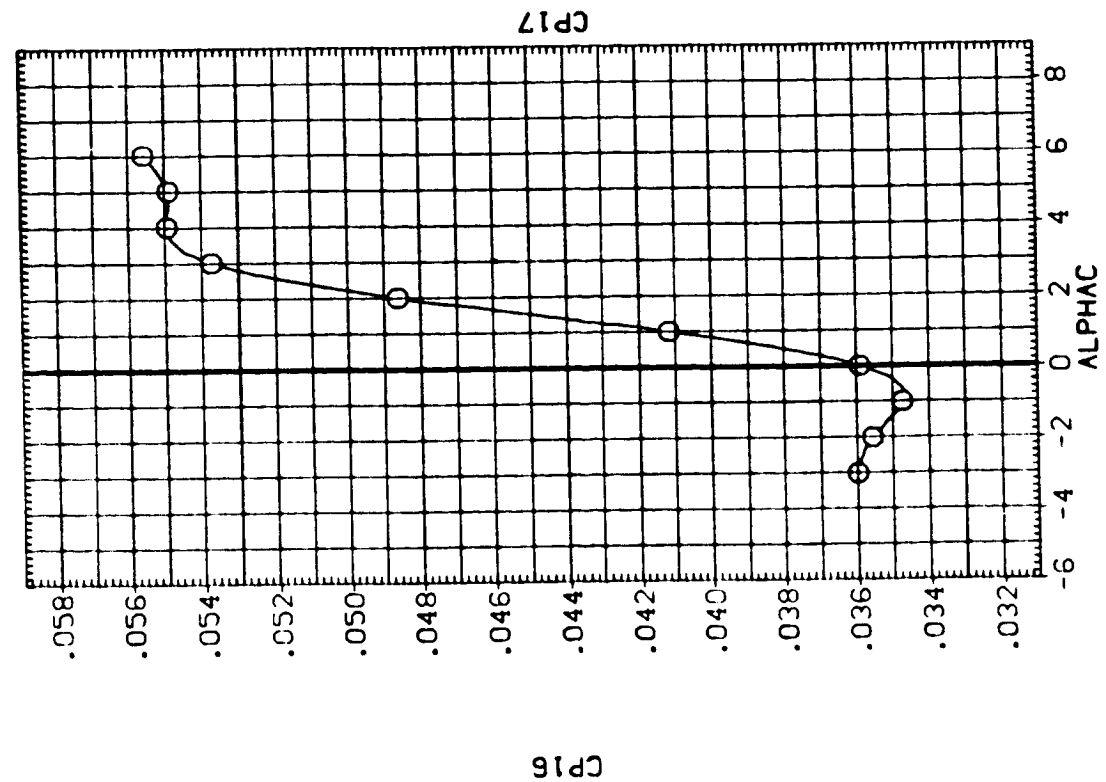


FIG.11 MATED (ORBITER + CARRIER) BASE AND CAVITY PRESSURES

(A)MACH = .60

DATA SET SYMBOL (CE9055) ○ CONFIGURATION DESCRIPTION ARC14-080-1 CA23 747/1(-SI-S12)05 ATI(MATED)

STAB-C 5.000 RUO-C .000 ELV-0 5.000 I-ORB 8.000
 REFERENCE INFORMATION
 SREF 5500.0000 SO.FT.
 LREF 327.7800 IN.
 BREF 2348.0400 IN.
 XMRP 1339.9000 IN.
 YMRP .0000 IN.
 ZMRP 190.7500 IN.
 SCALE .0125



CP17

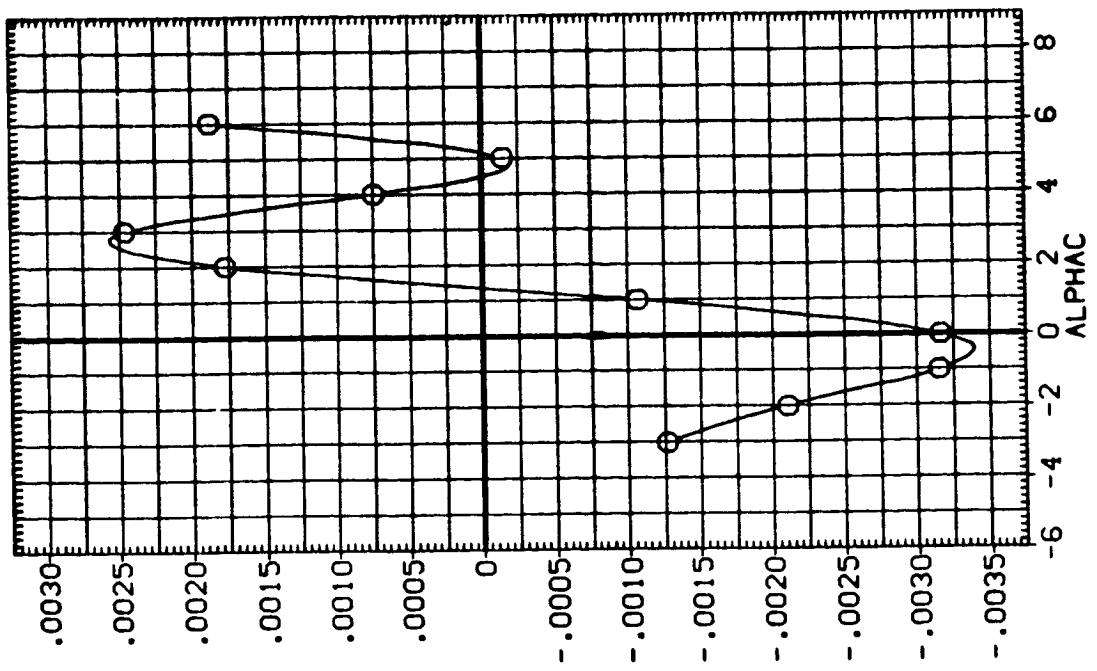


FIG.11 MATED (ORBITER + CARRIER) BASE AND CAVITY PRESSURES

(A)MACH = .60

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

DATA SET SYMBOL (CES056) ○ CONFIGURATION DESCRIPTION ARC14-080-1 CA23 747/1(-S1-S12)03 AT1(MATED)

STAB-C RUQ-C ELV-0 I-ORB
-1.000 .000 5.000 4.000

REFERENCE INFORMATION
SREF 5500.0000 SO.FT.
LREF 327.7800 IN.
BREF 2348.0400 IN.
XMRP 1339.5000 IN. MC
YMRP .0000 IN. YC
ZMRP 190.7500 IN. ZC
SCALE .0125

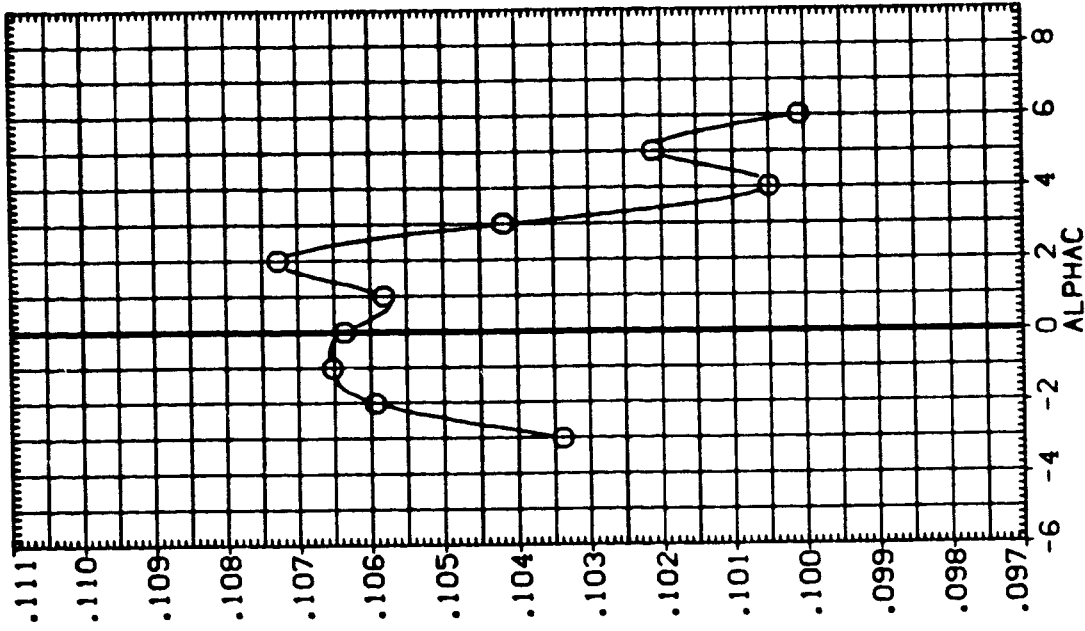
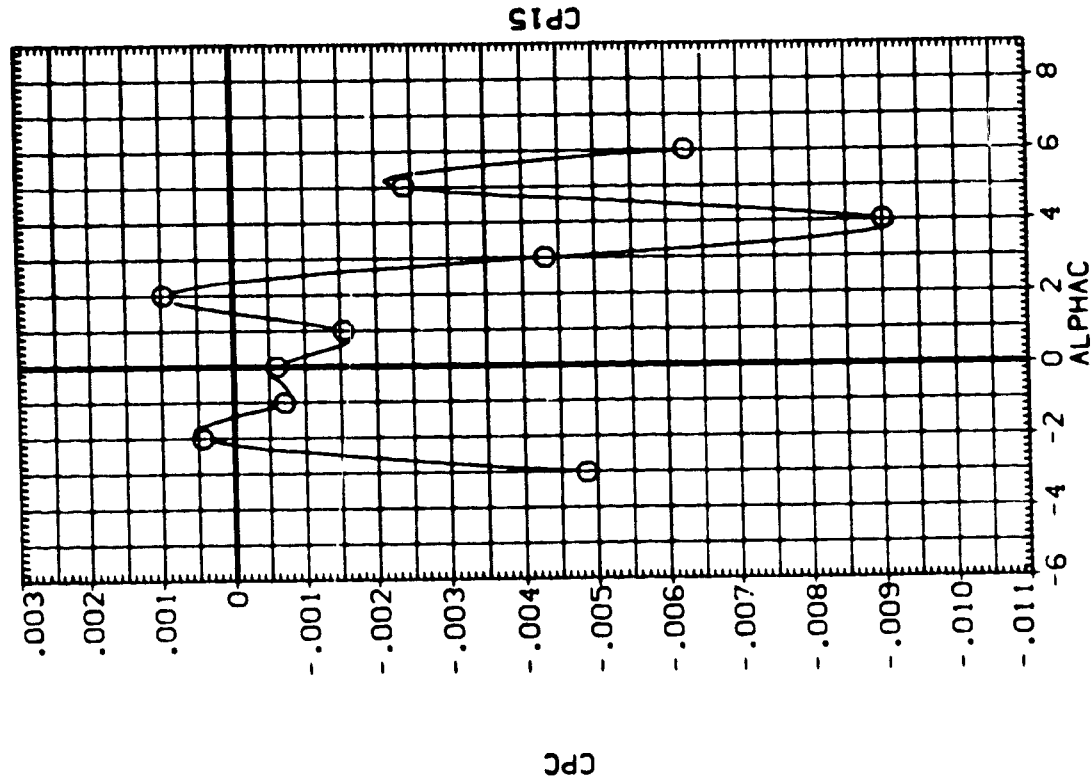


FIG.11 MATED (ORBITER + CARRIER) BASE AND CAVITY PRESSURES

(A)MACH = .60

747 LOWER AFT STING CAVITY EXIT PRESSURE COEFFICIENT, CP_{SBI}

DATA SET SYMBOL: (C) CONFIGURATION DESCRIPTION
(CE9056) () ARC14 DB0-1 CA23 747/1(-S1-S12)03 AT(MATED)

STAB-C RUO-C ELV-0 I-OR8
-1.000 .000 5.000 4.000

REFERENCE INFORMATION
SREF 5500.0000 SQ.FT.
LREF 327.7800 IN.
BREF 2348.0400 IN.
XMRP 1339.5000 IN. XC
YMRP .0000 IN. YC
ZMRP 190.7500 IN. ZC
SCALE .0125

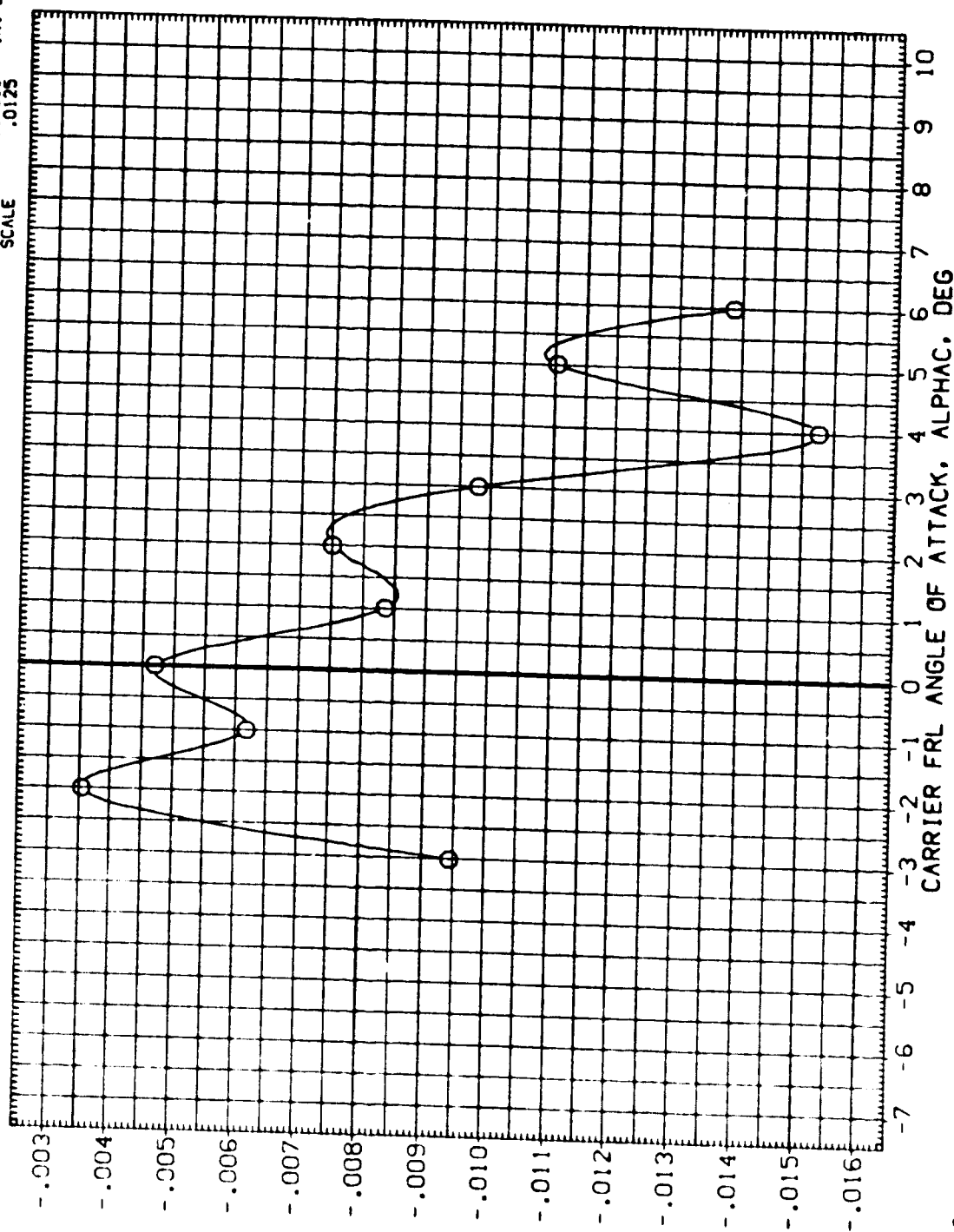


FIG. 11 MATED (ORBITER + CARRIER) BASE AND CAVITY PRESSURES

(A) MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
1	100% of the data set
2	50% of the data set
3	25% of the data set
4	12.5% of the data set
5	6.25% of the data set
6	3.125% of the data set
7	1.5625% of the data set
8	0.78125% of the data set
9	0.390625% of the data set
10	0.1953125% of the data set
11	0.09765625% of the data set
12	0.048828125% of the data set
13	0.0244140625% of the data set
14	0.01220703125% of the data set
15	0.006103515625% of the data set
16	0.0030517578125% of the data set
17	0.00152587890625% of the data set
18	0.000762939453125% of the data set
19	0.0003814697265625% of the data set
20	0.00019073486328125% of the data set
21	0.000095367431640625% of the data set
22	0.0000476837158203125% of the data set
23	0.00002384185791015625% of the data set
24	0.000011920928955078125% of the data set
25	0.0000059604644775390625% of the data set
26	0.00000298023223876953125% of the data set
27	0.000001490116119384765625% of the data set
28	0.0000007450580596923828125% of the data set
29	0.00000037252902984619140625% of the data set
30	0.000000186264514923095703125% of the data set
31	0.0000000931322574615478515625% of the data set
32	0.00000004656612873077392578125% of the data set
33	0.000000023283064365386962890625% of the data set
34	0.0000000116415321826934814453125% of the data set
35	0.00000000582076609134674072265625% of the data set
36	0.000000002910383045673370361328125% of the data set
37	0.0000000014551915228366851806640625% of the data set
38	0.00000000072759576141834259033203125% of the data set
39	0.000000000363797880709171295166015625% of the data set
40	0.0000000001818989403545856475830078125% of the data set
41	0.00000000009094947017729282379150390625% of the data set
42	0.000000000045474735088646411895751953125% of the data set
43	0.0000000000227373675443232059478759765625% of the data set
44	0.00000000001136868377216160297393798828125% of the data set
45	0.000000000005684341886080801486968994140625% of the data set
46	0.0000000000028421709430404007434844970703125% of the data set
47	0.00000000000142108547152020037174224853515625% of the data set
48	0.000000000000710542735760100185871124267578125% of the data set
49	0.0000000000003552713678800500929355621337890625% of the data set
50	0.00000000000017763568394002504646778106689453125% of the data set
51	0.000000000000088817841970012523233890533447265625% of the data set
52	0.0000000000000444089209850062616169452667236328125% of the data set
53	0.00000000000002220446049250313080847263336181640625% of the data set
54	0.000000000000011102230246251565404236316680908203125% of the data set
55	0.0000000000000055511151231257827021181583340541015625% of the data set
56	0.00000000000000277555756156289135105907916702705078125% of the data set
57	0.000000000000001387778780781445675529539583513525390625% of the data set
58	0.0000000000000006938893903907228377647697917567626953125% of the data set
59	0.00000000000000034694469519536141888238489587838134765625% of the data set
60	0.000000000000000173472347597680709441192447939190673828125% of the data set
61	0.0000000000000000867361737988403547205962239695953369140625% of the data set
62	0.00000000000000004336808689942017736029811198479766845703125% of the data set
63	0.000000000000000021684043449710088680149055992398834228515625% of the data set
64	0.0000000000000000108420217248550443400745279961994171142578125% of the data set
65	0.00000000000000000542101086242752217003726399809970855712890625% of the data set
66	0.000000000000000002710505431213761085018631999049854278564453125% of the data set
67	0.0000000000000000013552527156068805425093159995249271392822265625% of the data set
68	0.00000000000000000067762635780344027125465799976246356964111328125% of the data set
69	

CONFIGURATION DESCRIPTION
ARC14-080-1 CA23 747/1(-S1-S12)03 ATI(MATED)

STAB-C	RUD-C	ELV-0	I-ORB
-1.000	.000	5.000	4.000

REFERENCE INFORMATION	
SREF	5500.0000 SO.FT.
LREF	327.7800 IN.
BREF	2348.0400 IN.
XMRP	1339.9000 IN. XC
YMRP	0000 IN. YC
ZMRP	190.7500 IN. ZC
SCALE	.0125

ORBITER BASE PRESSURE COEFFICIENT, CP14

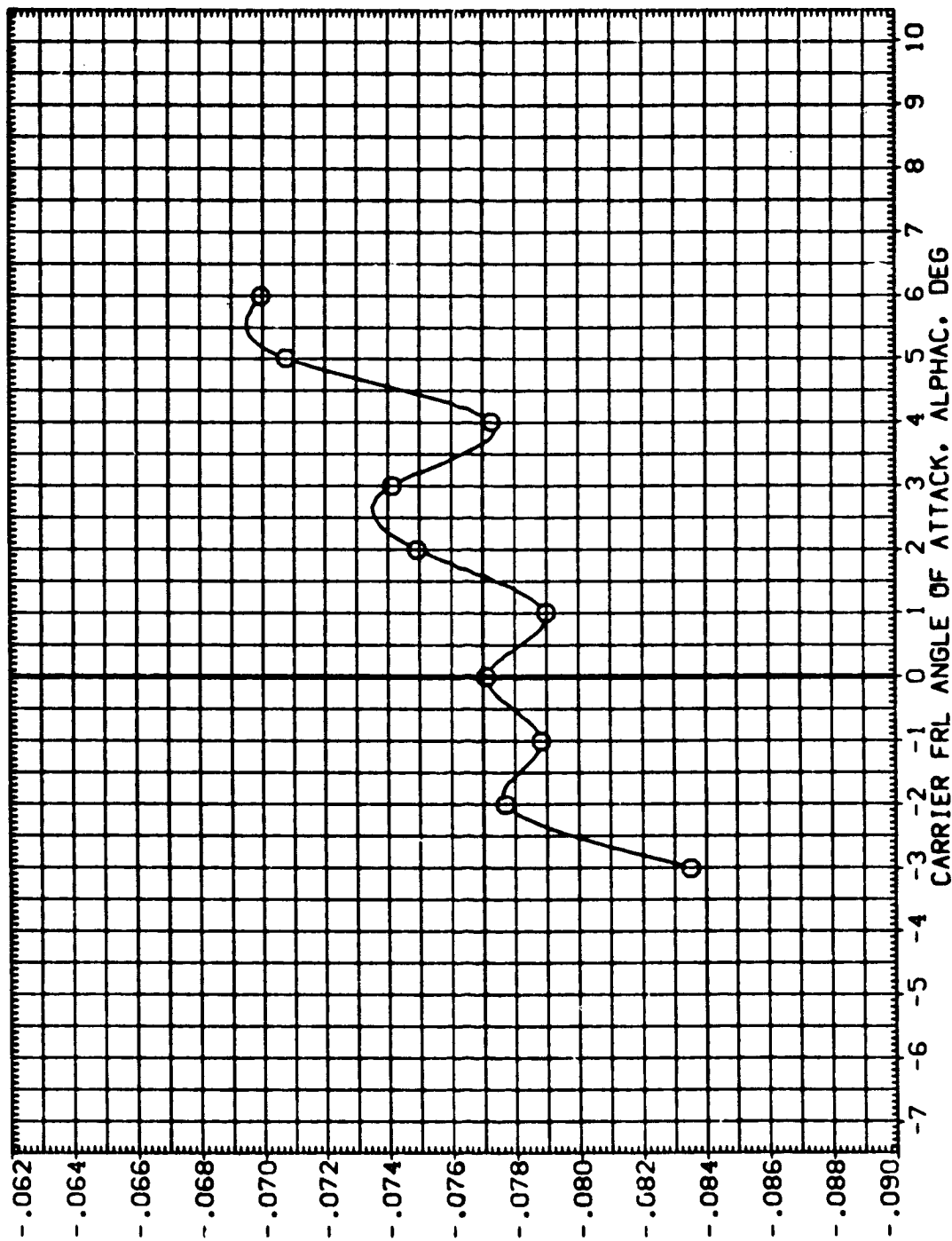


FIG. 11 MATED (ORBITER + CARRIER) BASE AND CAVITY PRESSURES

(A)MACH = .60

DATA SET SYMBOL: (CE9056) \odot CONFIGURATION DESCRIPTION: ARC14-080-1 CA23 747/1(-S1-S12)03 ATT(MATED)

STAB-C RUO-C ELV-0 I-ORB
-1.000 .000 5.000 4.000

REFERENCE INFORMATION
SREF 5500.0000 SO.FT.
LREF 327.7800 IN.
BREF 2348.0400 IN.
XMRP 1339.9000 IN. KC
YMRP .0000 IN. YC
ZMRP 190.7500 IN. ZC
SCALE .0125

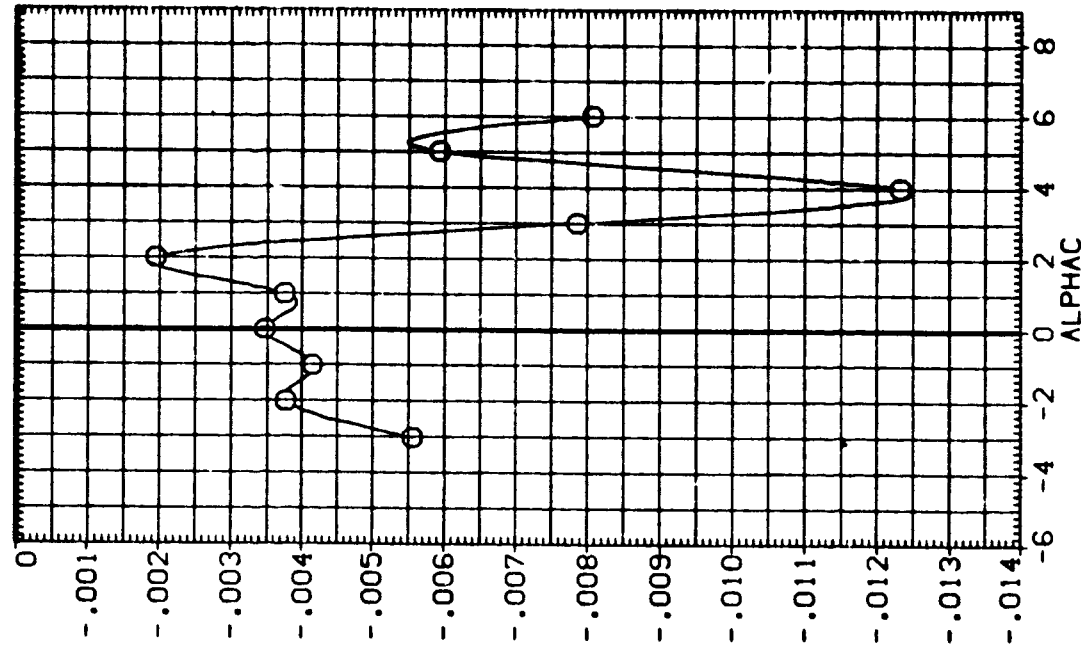
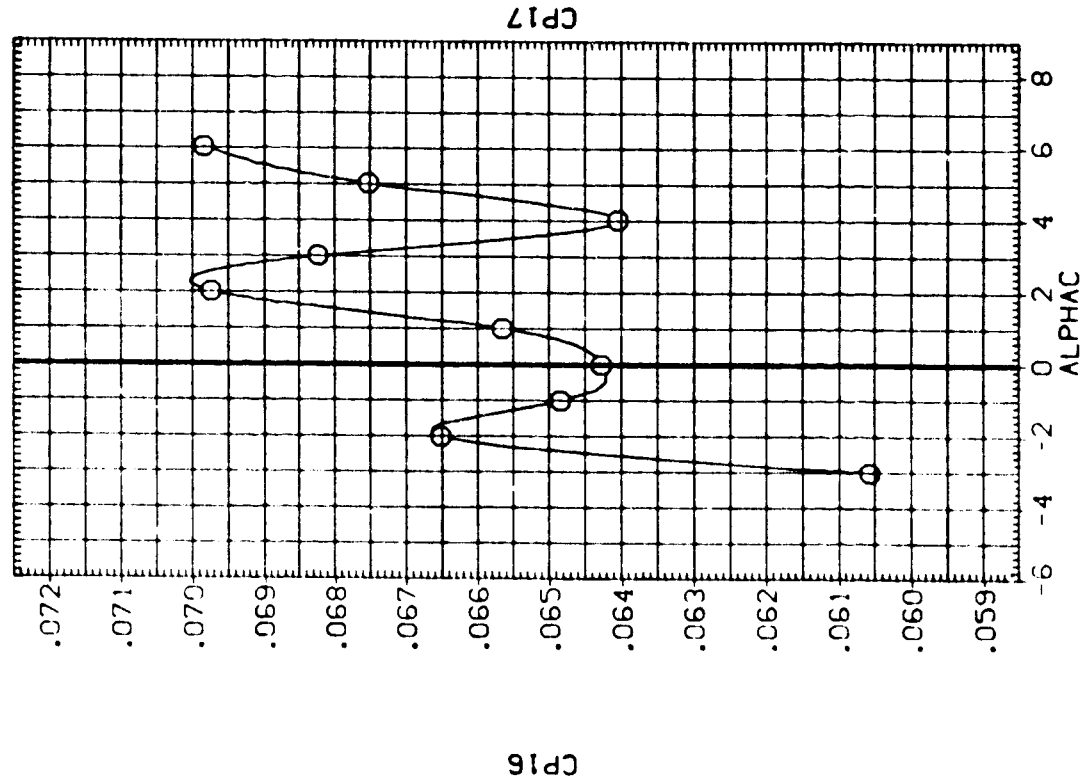


FIG.11 MATED (ORBITER + CARRIER) BASE AND CAVITY PRESSURES

(A) MACH = .60

DATA SET SYMBOL (CE9057) ○

CONFIGURATION DESCRIPTION ARC14-080-1 CA23 747/1 03 AT1 (MATED)

STAB-C RUO-C ELV-0 I-088

-1.000 .000 5.000 4.000

REFERENCE INFORMATION

SREF 5500.0000 SQ.FT.

LREF 327.7800 IN.

BREF 2348.0400 IN.

YMRP 1339.9000 IN.

ZMRP 190.7500 IN.

SCALE .0125

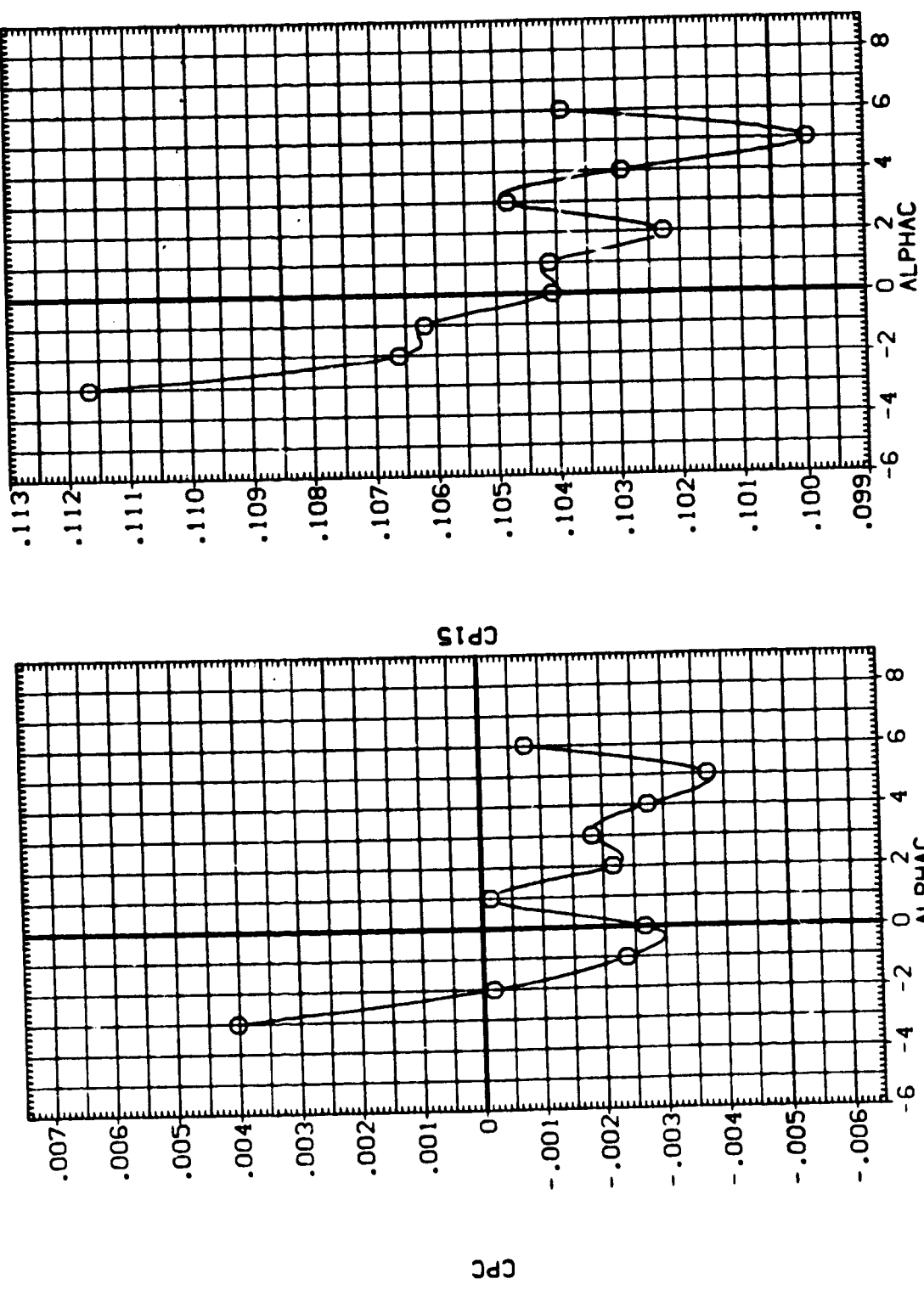


FIG.11 MATED (ORBITER + CARRIER) BASE AND CAVITY PRESSURES

(A) MACH = .60

DATA SET SYMBOL (CE9057) ○ CONFIGURATION DESCRIPTION ARC14-080-1 CA23 747/1 03 AT1 (MATED)

STAB-C RUO-C ELV-0 I-ORB
-1.000 .000 5.000 4.000

REFERENCE INFORMATION
SREF 5500.0000 SQ.FT.
LREF 327.7800 IN.
BREF 2348.0400 IN.
XMRP 1339.9000 IN. XC
YMRP .0000 IN. YC
ZMRP 190.7500 IN. ZC
SCALE .0125

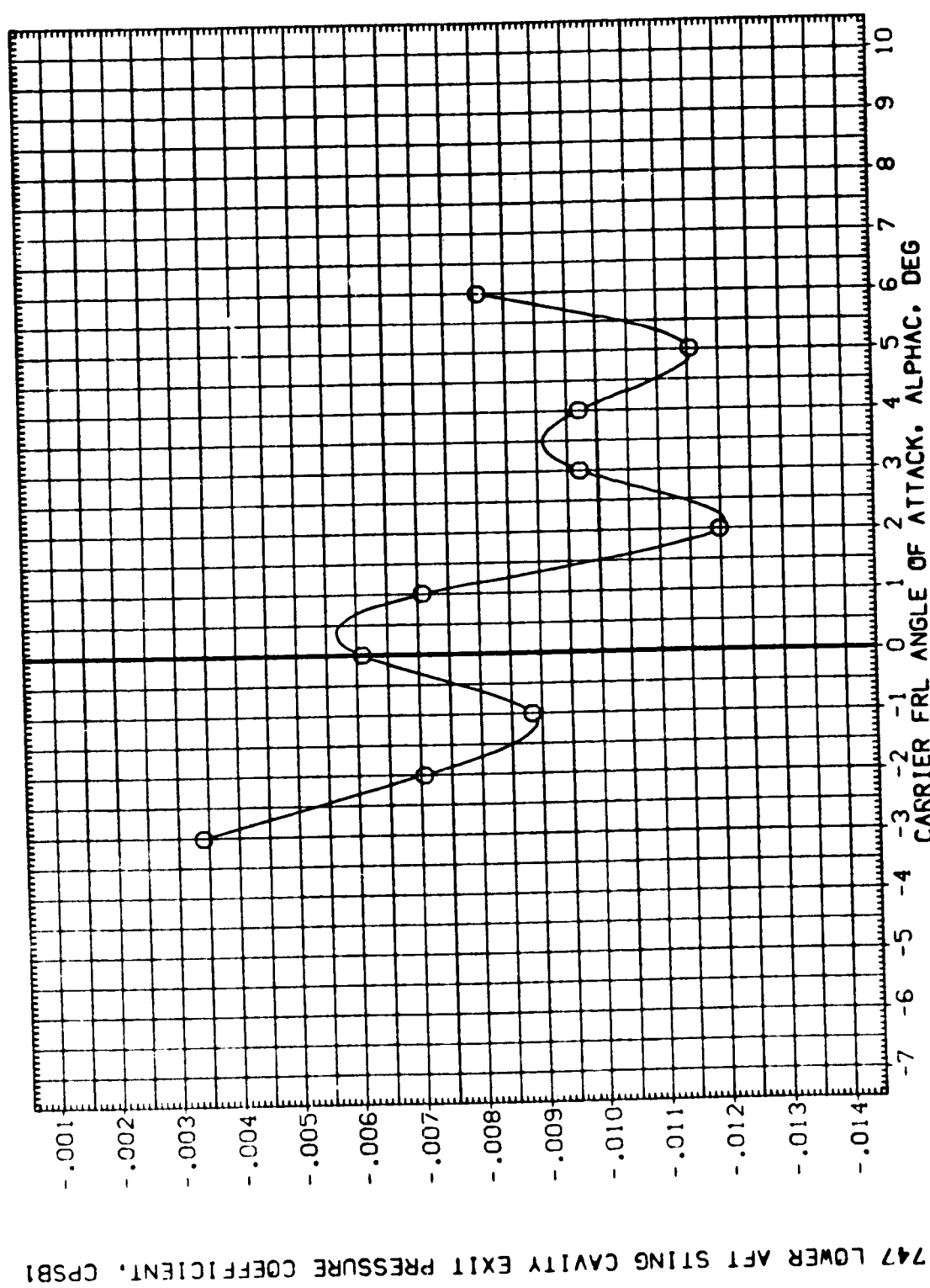


FIG.11 MATED (ORBITER + CARRIER) BASE AND CAVITY PRESSURES

(A)MACH = .60

DATA SET SYMBOL (CE9057) ○

CONFIGURATION DESCRIPTION
ARC14-080-1 CA23 747/1 03 AT1 (MATED)

STAB-C -1.000
RUD-C .000
ELV-0 5.000
I-OR0 4.000

REFERENCE INFORMATION
SREF 9500.0000 50.FT.
LREF 327.0000 IN.
BREF 2348.0000 IN.
XMRP 1339.5000 IN. MC
YMRP .0000 IN. YC
ZMRP 190.7500 IN. ZC
SCALE .0125

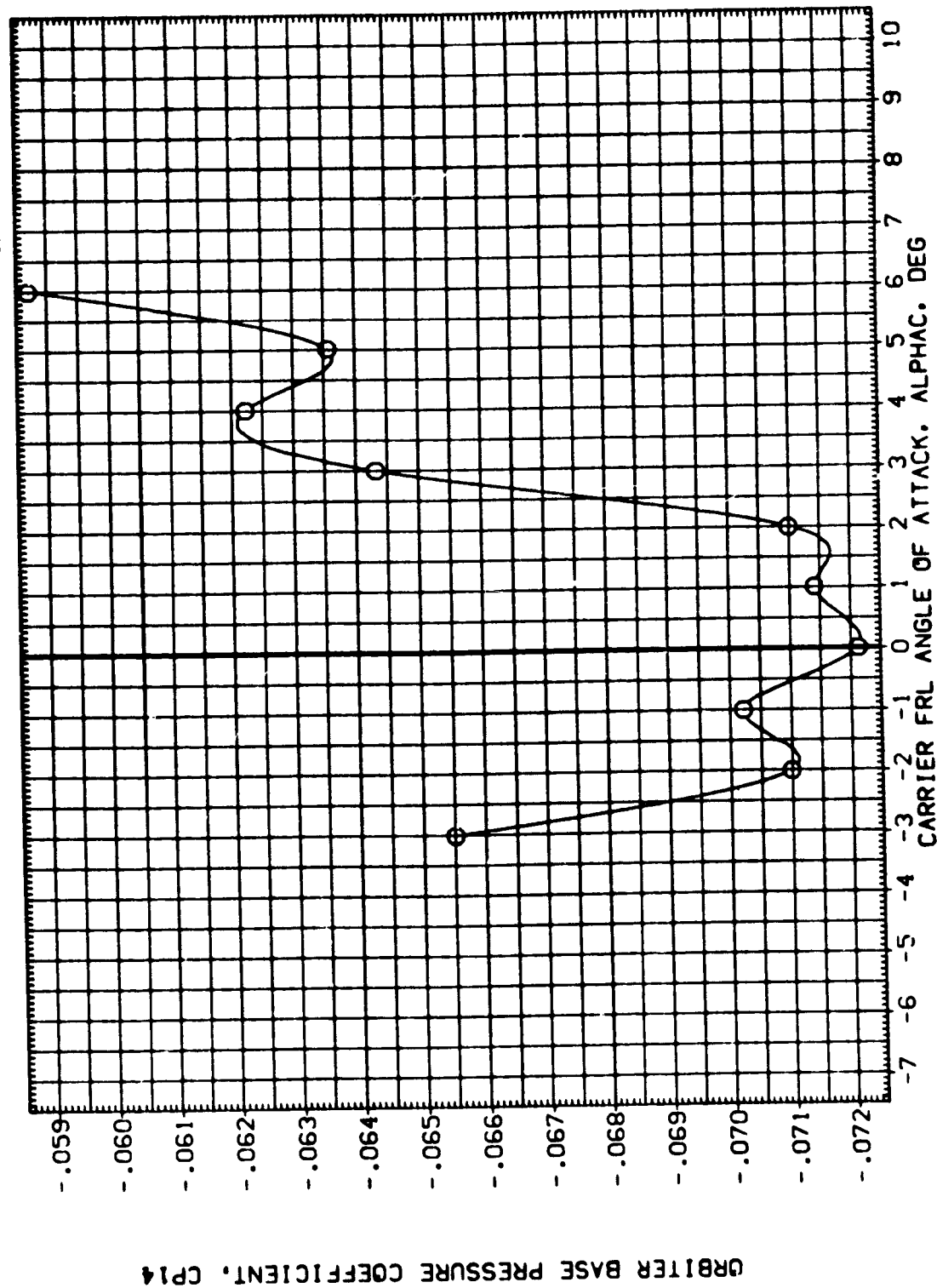


FIG.11 MATED (ORBITER + CARRIER) BASE AND CAVITY PRESSURES

(A)MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(CE9057) ○ ARC14-080-1 CA23 747/1 03 AT1 (MATED)

STAB-C RUO-C ELV-O I-ORB
-1.000 .000 5.000 4.000

REFERENCE INFORMATION

	SO.FT.
SREF	5500.0000
LREF	327.7800
BREF	2348.0400
XMRP	1339.9000
YMRP	.0000
ZMRP	190.7500
SCALE	.0125

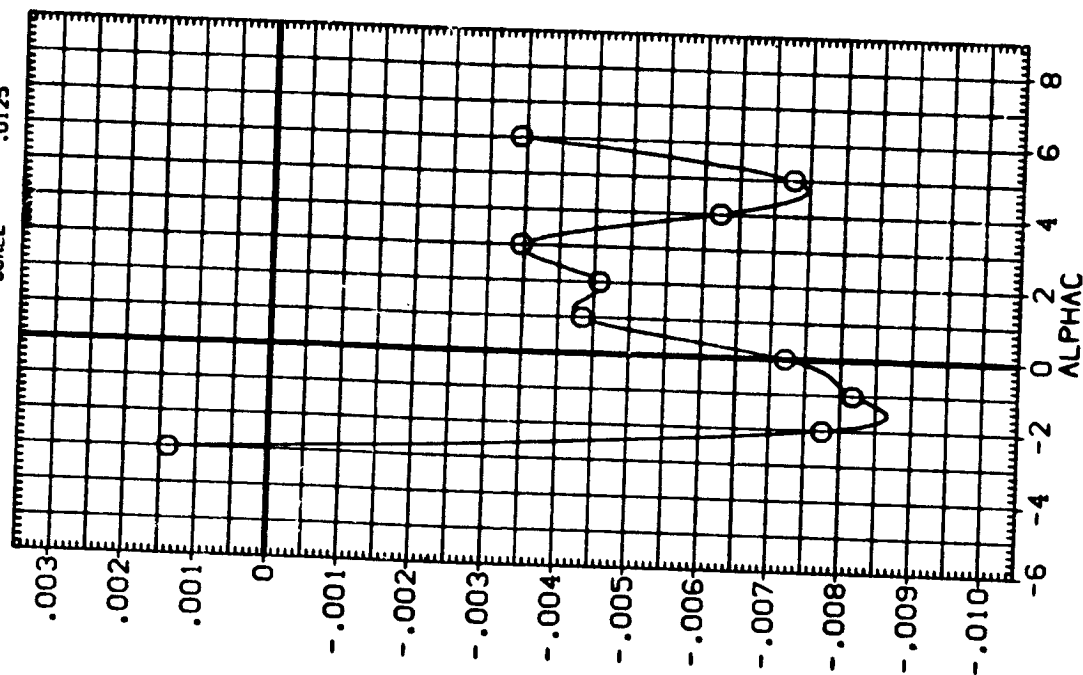
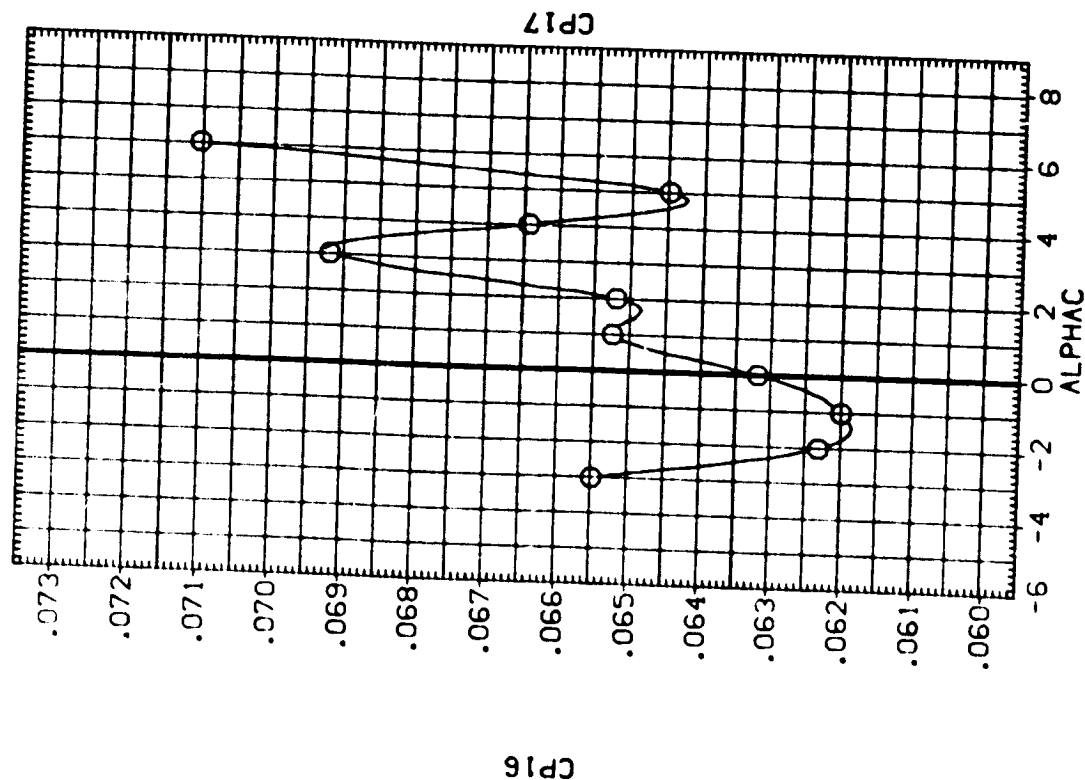


FIG.11 MATED (ORBITER + CARRIER) BASE AND CAVITY PRESSURES

(A)MACH = .60

DATA SET SYMBOL (CE9058) ○ CONFIGURATION DESCRIPTION ARC14-080-1 CA23 747/1(-51-512)03 ATI(MATED)

STAB-C RUO-C ELV-0 I-088
-1.000 .000 .000 4.000

REFERENCE INFORMATION
SREF 5500.0000 50.0 FT.
LREF 277.7800 IN.
BREF 2348.0400 IN.
XMRP 1339.5000 IN.
YMRP .0000 IN.
ZMRP 190.7500 IN.
SCALE .0125

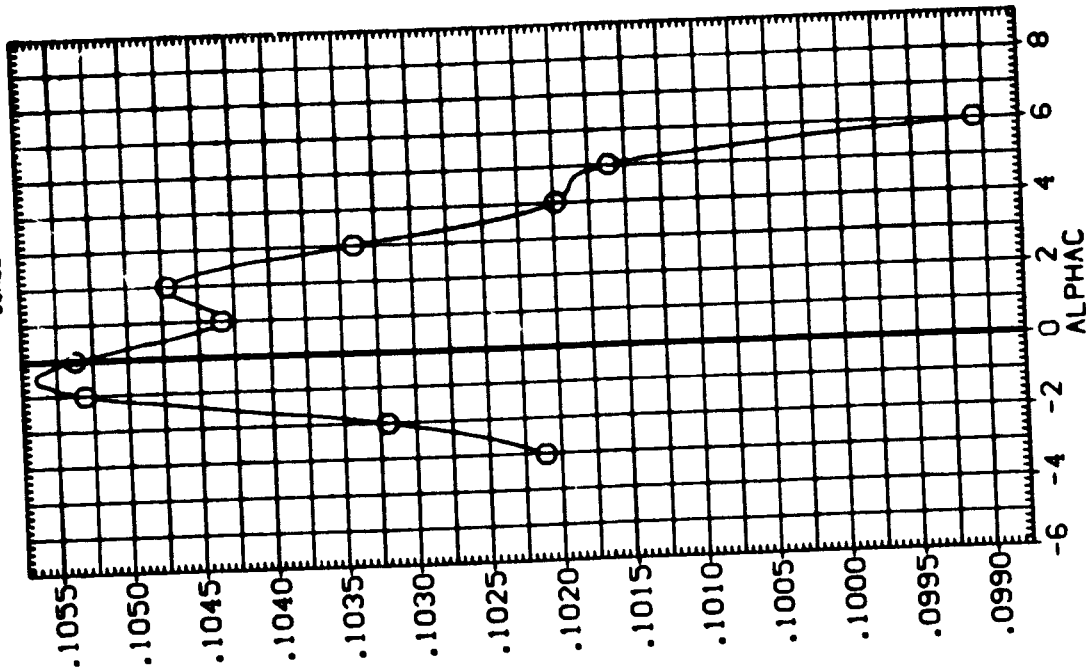
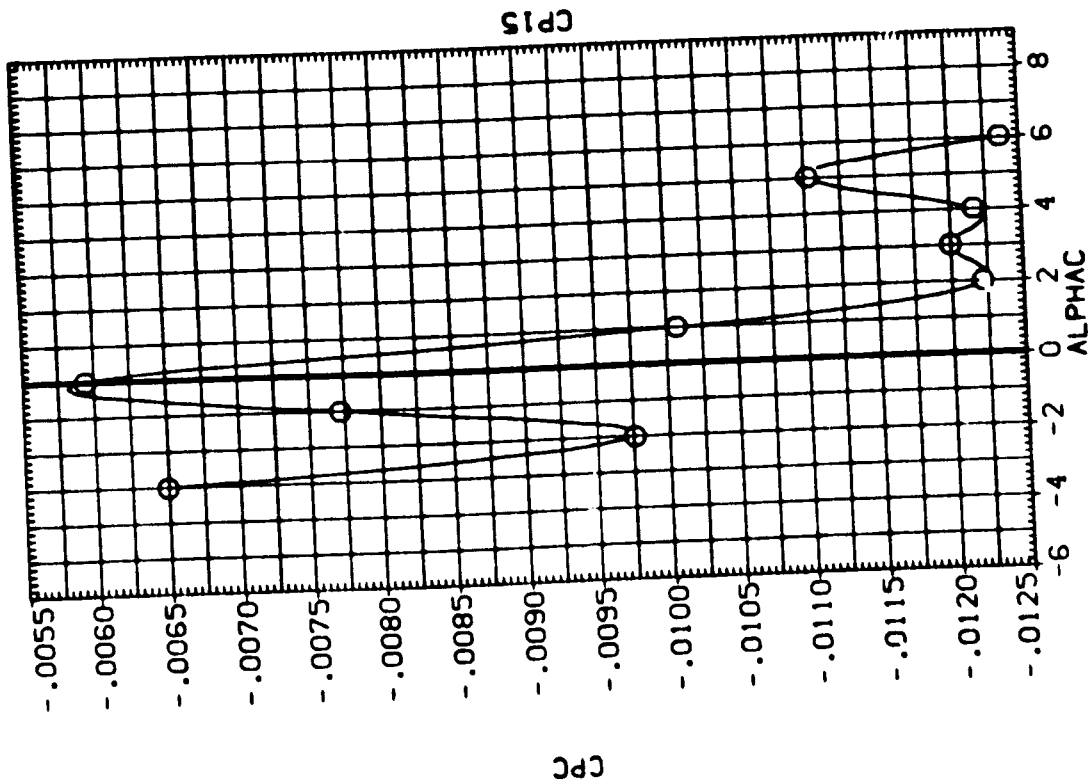


FIG.11 MATED (ORBITER + CARRIER) BASE AND CAVITY PRESSURES

(A)MACH = .60

DATA SET SYMBOL ○ CONFIGURATION DESCRIPTION ARC:14-080-1 CA23 747/1C-S1-S12103 AT(MATED)

REFERENCE INFORMATION	
SREF	5500.0000 SQ.FT.
LREF	327.7800 IN.
BREF	2348.0400 IN.
XMRP	1339.9000 IN. XC
YMRP	.0000 IN. YC
ZMRP	190.7500 IN. ZC
SCALE	.0125

STAB-C -1.000 ELV-0 .000 RUO-C .000 I-OR8 4.000

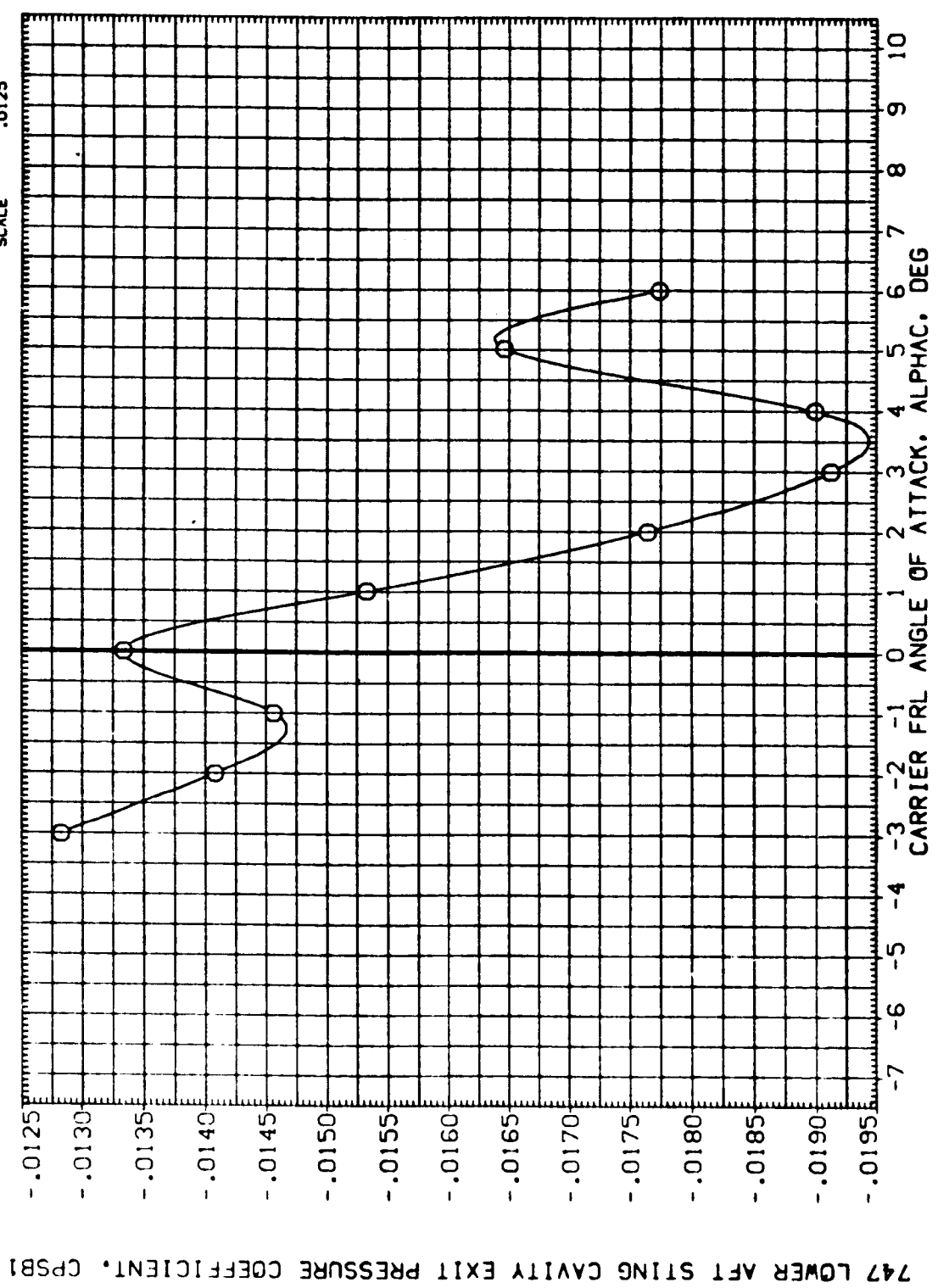


FIG.11 MATED (ORBITER + CARRIER) BASE AND CAVITY PRESSURES

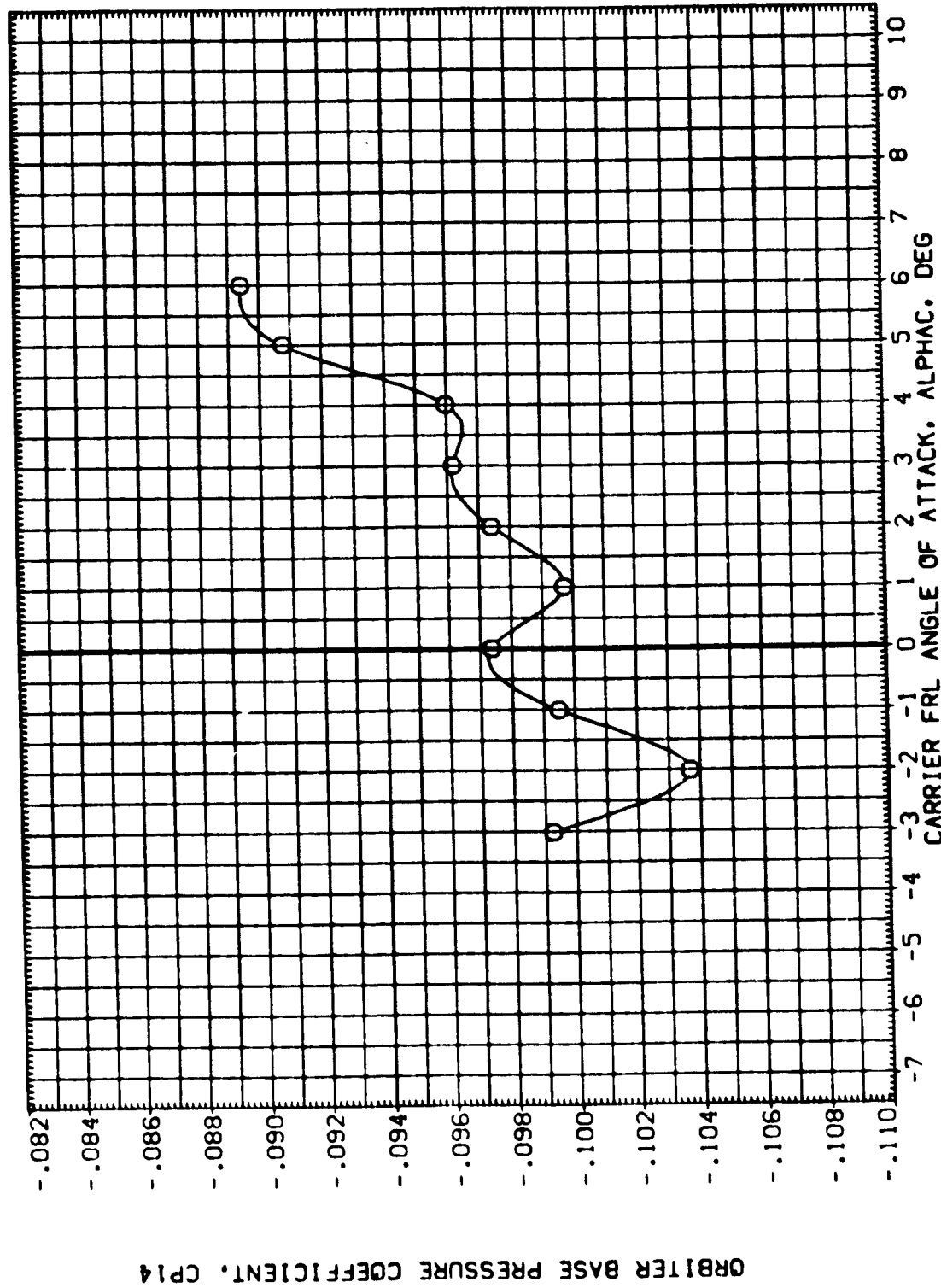
(A)MACH = .60

DATA SET SYMBOL (CE9058) ○ ARC14-080-1 CA23 747/1(-SI-S12)03 AT1(MATED)

CONFIGURATION DESCRIPTION

STAB-C RUO-C ELV-O I-OR8
-1.000 .000 4.000

REFERENCE INFORMATION
SREF 5500.0000 SQ.FT.
LREF 327.7800 IN.
BREF 2348.0400 IN.
XMRP 1339.9000 IN. XC
YMRP .0000 IN. YC
ZMRP 190.7500 IN. ZC
SCALE .0125



ORBITER BASE PRESSURE COEFFICIENT, CP14

FIG.11 MATED (ORBITER + CARRIER) BASE AND CAVITY PRESSURES

(A)MACH = .60

DATA SET SYMBOL: CONFIGURATION DESCRIPTION
 1052581 APC14-080-1 CA23 747/1(-SI-S12103 ATT(MATED))

STAB-C RUO-C ELV-O I-068
 -1.000 .000 .000 4.000

REFERENCE INFORMATION
 SREF 5500.0000 SQ.FT.
 LREF 327.7800 IN.
 BREF 2348.0400 IN.
 XMRP 1339.9000 IN. IC
 YMRP .0000 IN. YC
 ZMRP 190.7500 IN. ZC
 SCALE .0125

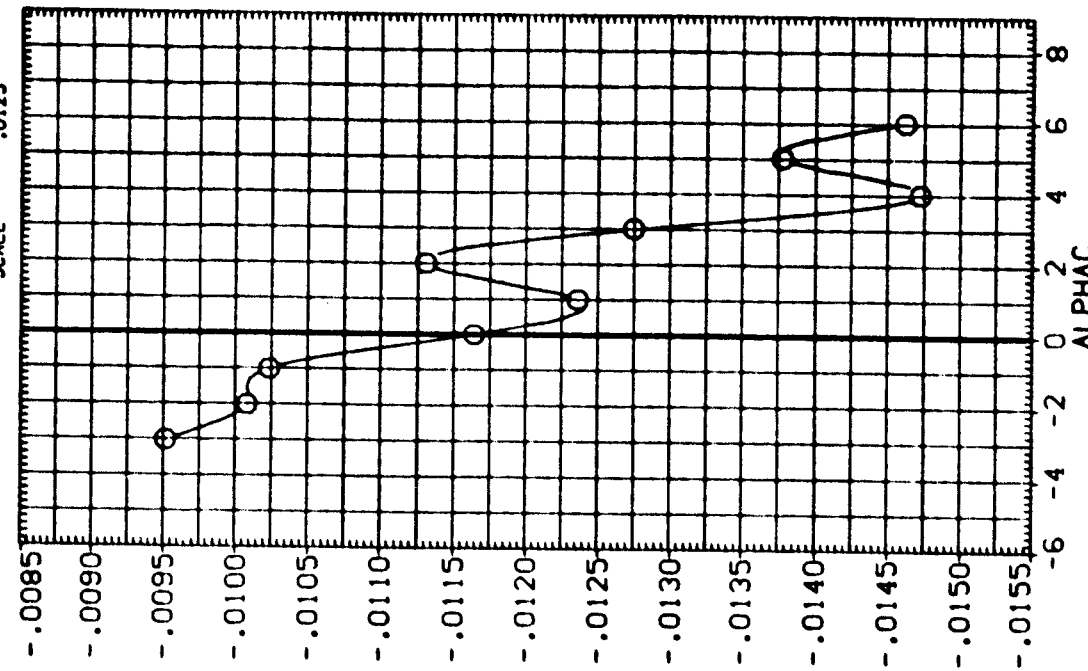
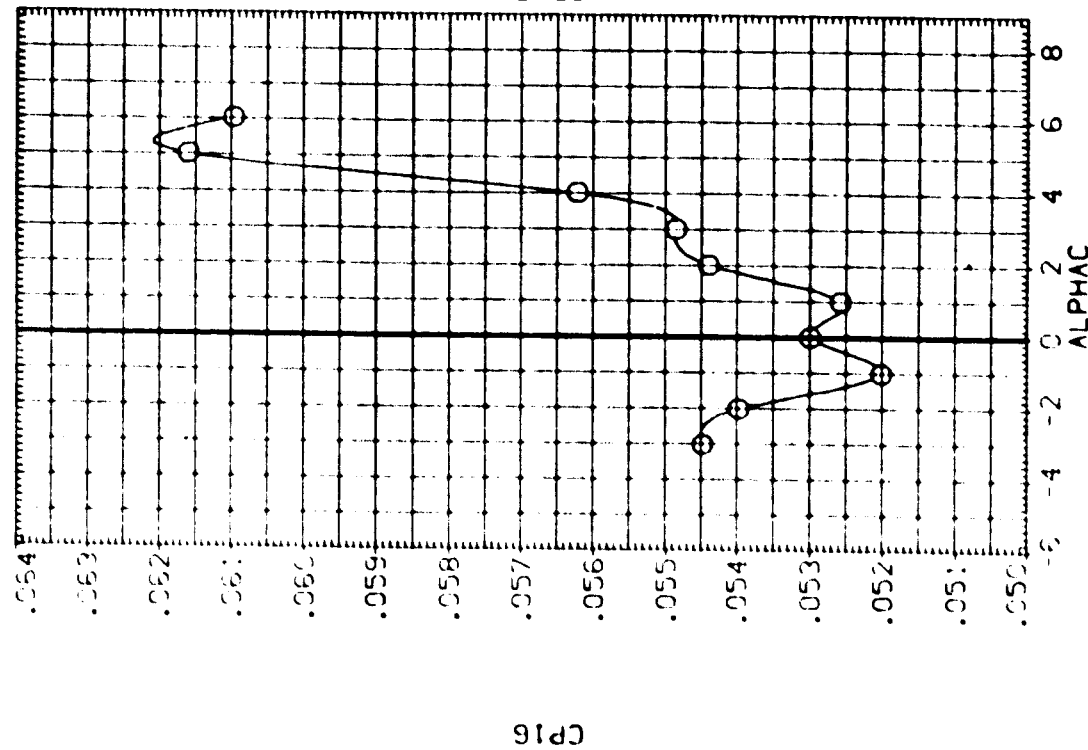


FIG.11 MATED (ORBITER + CARRIER) BASE AND CAVITY PRESSURES

(A) MACH = .50

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (C19059) ARC14-080-1 CA23 747/1 03 AT1 (MATED)
 (CE9060) ARC14-080-1 CA23 747/1 03 AT1 (MATED)

STAB-C RUO-C ELV-0 1-000
 -1.000 .000 .000 4.000
 -1.000 .000 .000 6.000

REFERENCE INFORMATION
 SREF 5500.0000 50. FT.
 LREF 327.7800 IN.
 BREF 2348.0400 IN.
 XMRP 1339.9000 IN.
 YMRP .0000 IN.
 ZMRP 190.7500 IN.
 SCALE .0125

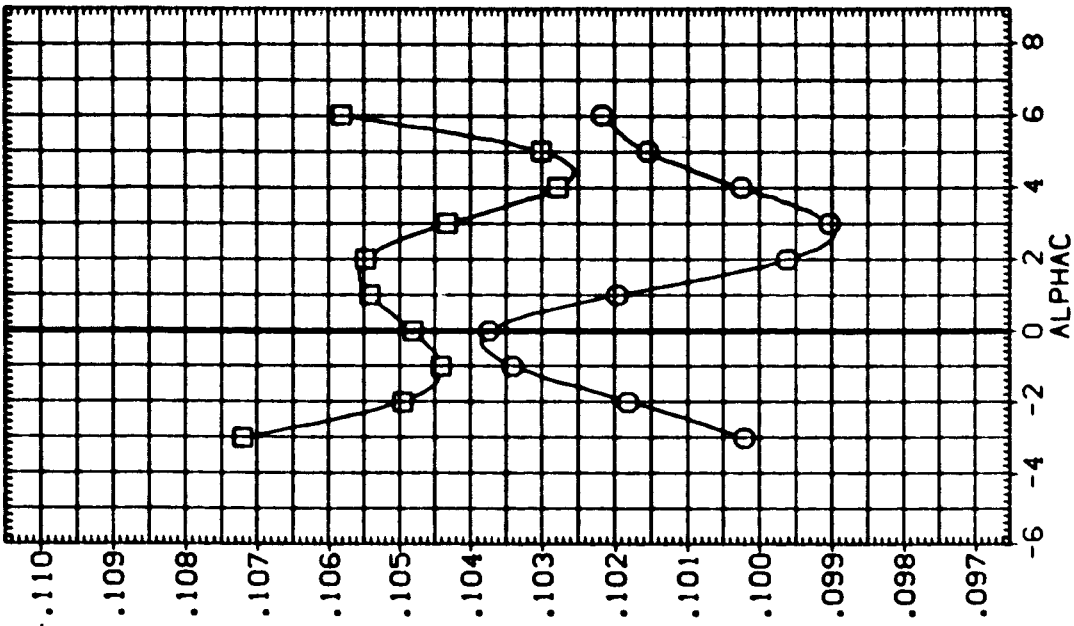
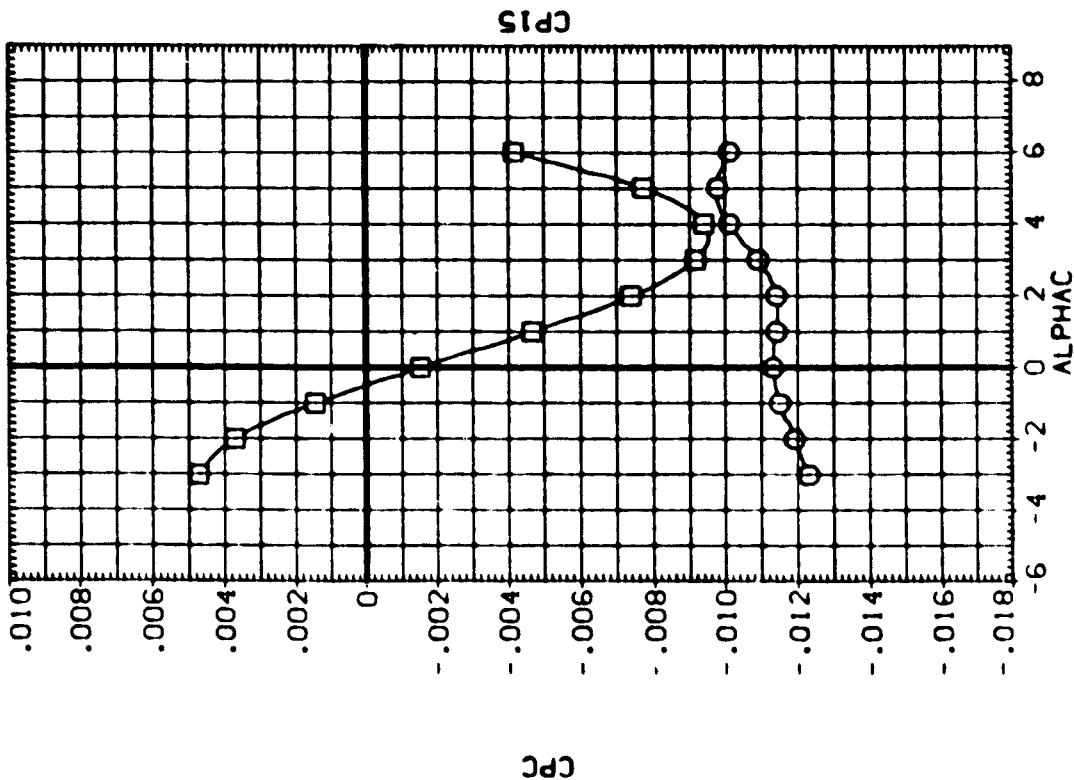


FIG.11 MATED (ORBITER + CARRIER) BASE AND CAVITY PRESSURES

(A)MACH = .50

DATA SET SYMBOL 8 CONFIGURATION DESCRIPTION
 (CE9059) ARC14-080-1 CA23 747/1 03 ATI (MATED)
 (CE9060) ARC14-080-1 CA23 747/1 03 ATI (MATED)

STAB-C RUD-C ELV-0 1-088
 -1.000 .000 .000 4.000
 -1.000 .000 .000 6.000

REFERENCE INFORMATION
 SREF 5500.0000 SQ.FT.
 LREF 327.7800 IN.
 BREF 2348.0400 IN.
 XMRP 1339.5000 IN.
 YMRP .0000 IN.
 ZMRP 190.7500 IN.
 SCALE .0125

747 LOWER AFT STING CAVITY EXIT PRESSURE COEFFICIENT, CP8B1

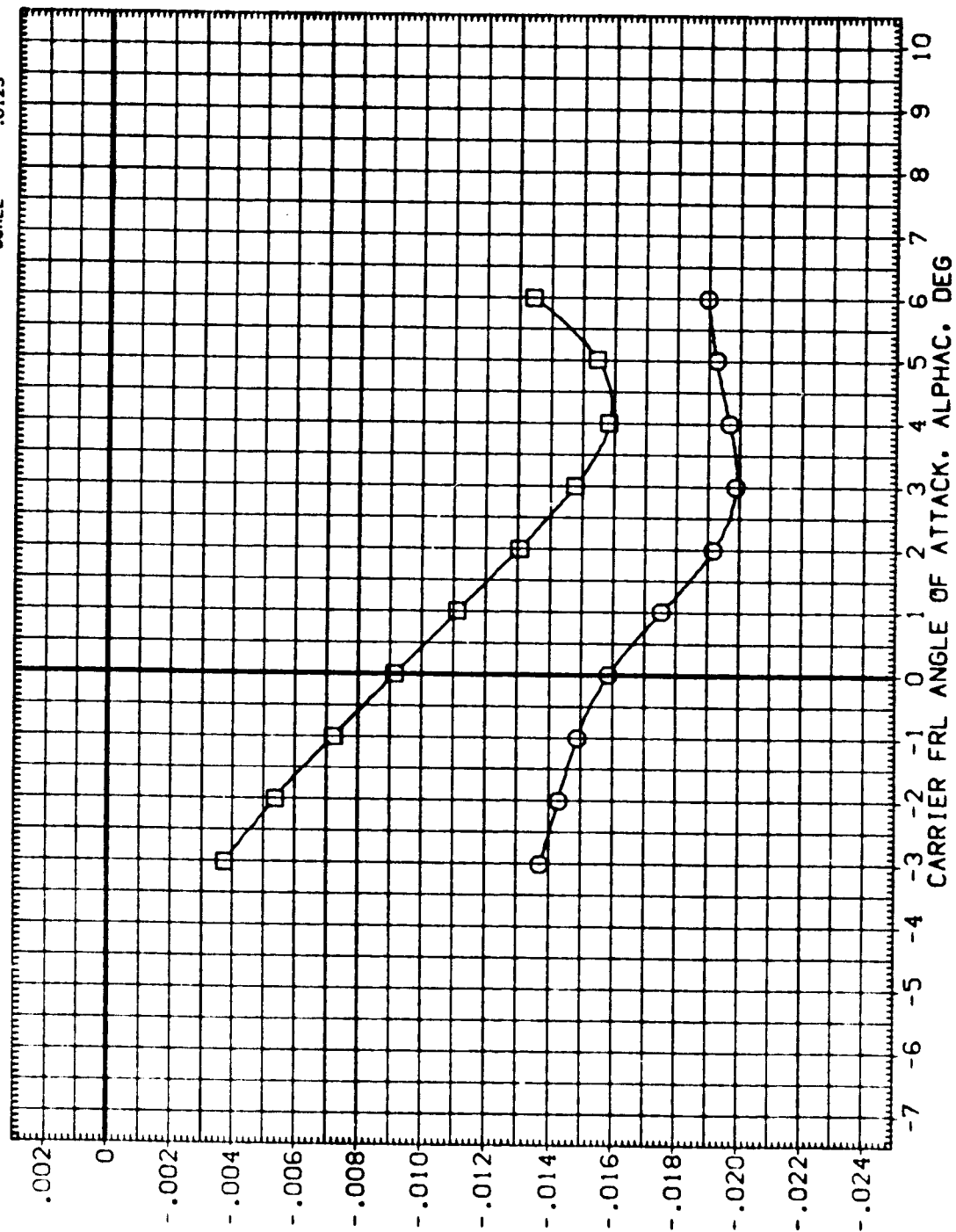


FIG.11 MATED (ORBITER + CARRIER) BASE AND CAVITY PRESSURES

(A)MACH = .60

REPRODUCIBILITY OF THE
 ORIGINAL PAGE IS POOR

DATA SET SYMBOL (CE9059)
(CE9060)

CONFIGURATION DESCRIPTION
ARC14-080-1 CA23 747/1 03 AT1 (MATED)
ARC14-080-1 CA23 747/1 03 AT1 (MATED)

REFERENCE INFORMATION
SREF 5500.0000 50.FT.
LREF 327.7800 IN.
BREF 2348.0400 IN.
XMRP 1339.9000 IN.
YMRP .0000 IN.
ZMRP 190.7500 IN.
SCALE .0125

STAB-C RUD-C ELV-B I-ORB
-1.000 .000 4.000
-1.000 .000 6.000

ORBITER BASE PRESSURE COEFFICIENT, CP14

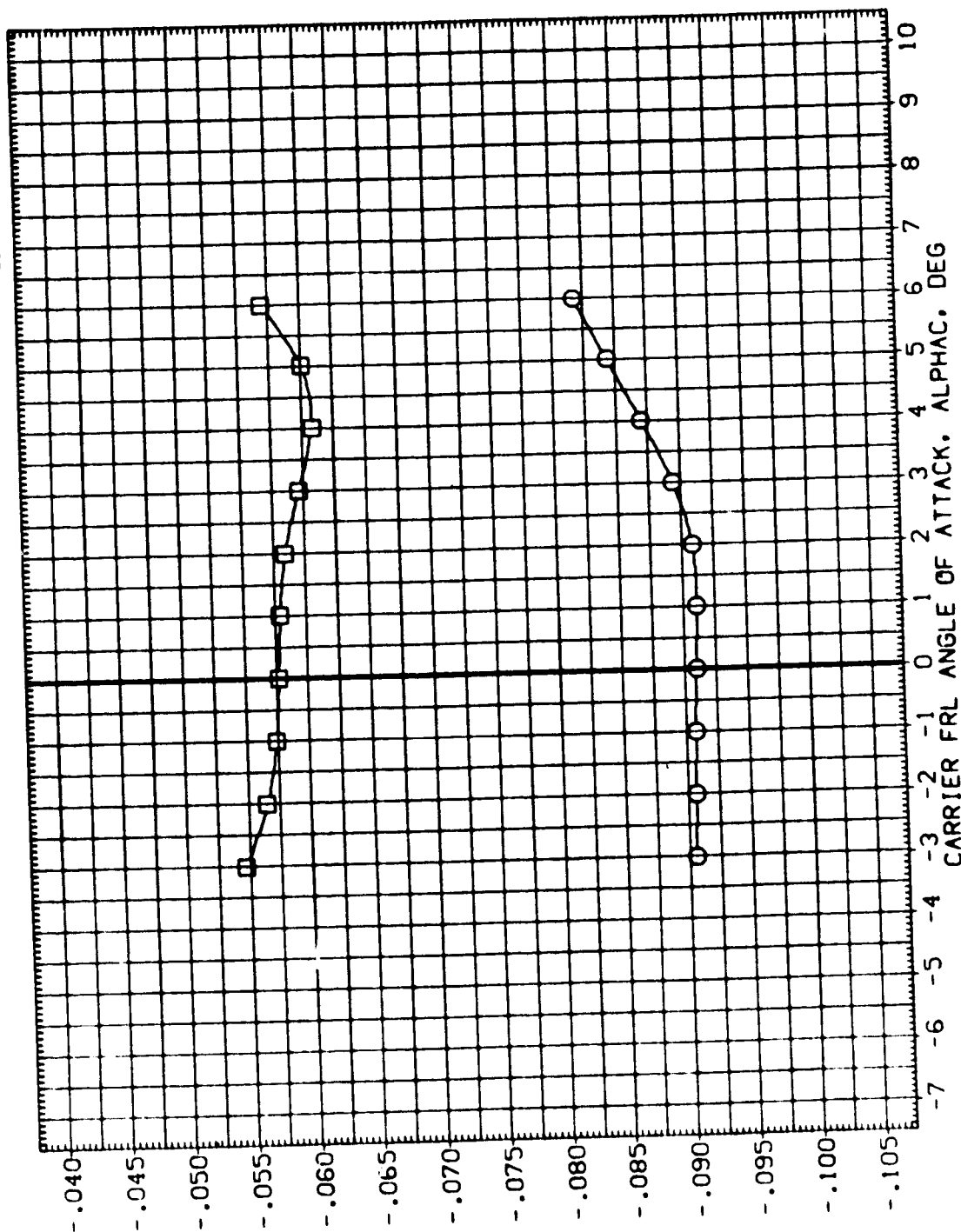


FIG.11 MATED (ORBITER + CARRIER) BASE AND CAVITY PRESSURES

(A)MACH = .60

DATA SET SYMBOL
 (CE9059) 8
 (CE9060)

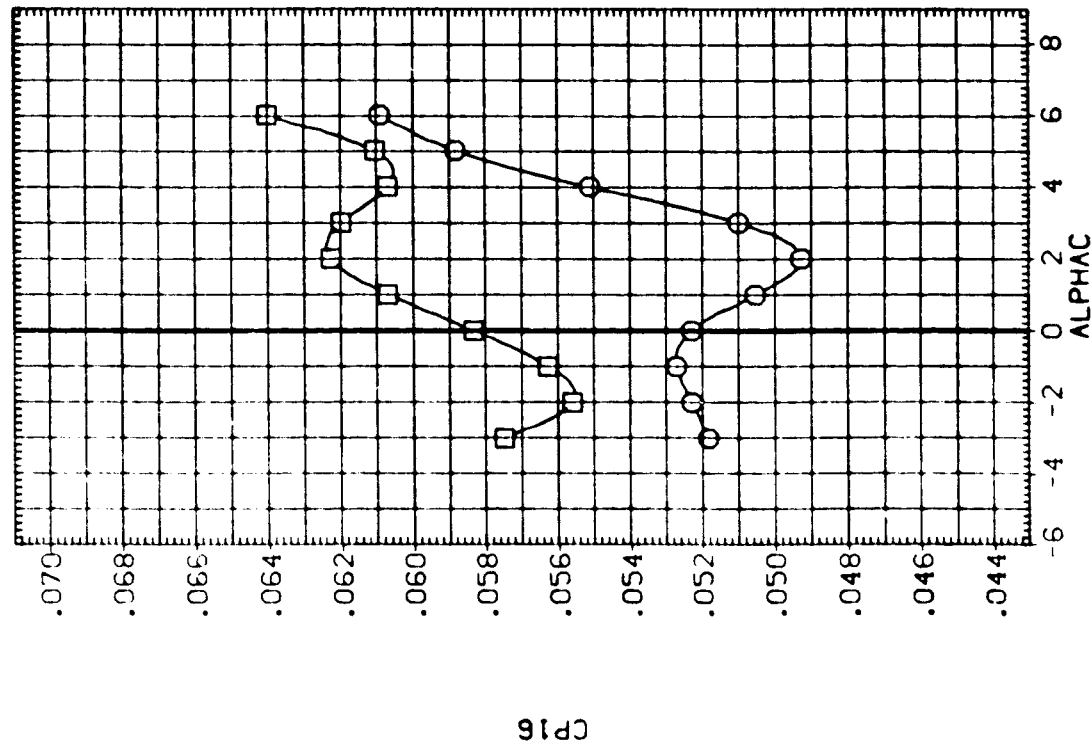
CONFIGURATION DESCRIPTION

ARC14-080-1 CA23 747/1 03 AT1 (MATED)
 ARC14-080-1 CA23 747/1 03 AT1 (MATED)

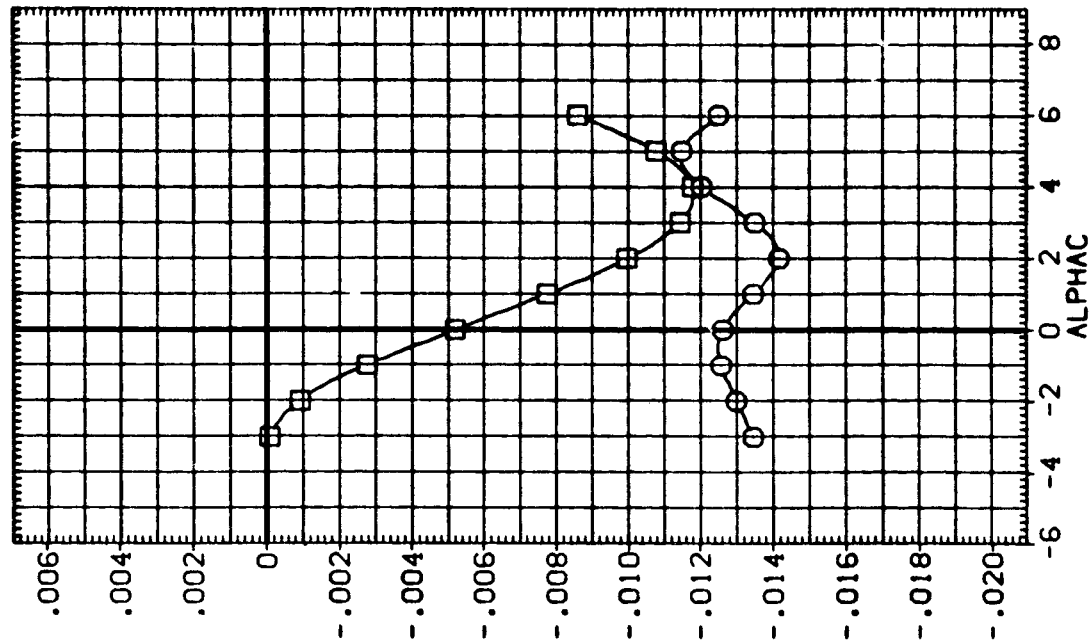
STAB-C RUO-C ELV-0 I-088
 -1.000 .000 .000 4.000
 -1.000 .000 .000 6.000

REFERENCE INFORMATION

SREF 5500.0000 SQ.FT.
 LREF 327.7800 IN.
 BREF 2348.0400 IN.
 XMRP 1339.9000 IN. XC
 YMRP .0000 IN. YC
 ZMRP 190.7500 IN. ZC
 SCALE .0125



CP16



CP17

FIG.11 MATED (ORBITER + CARRIER) BASE AND CAVITY PRESSURES

DATA SET SYMBOL (CE9061) ○ CONFIGURATION DESCRIPTION ARC14-080-1 CA23 747/1 03 AT1 (MATED)

BETAC STAB-C ELV-0 1-0RB
-5.000 -1.000 .000 4.000

REFERENCE INFORMATION
SREF 5500.0000 SQ.FT.
LREF 327.7800 IN.
BREF 2348.0400 IN.
XMRP 1339.9000 IN. XC
YMRP 190.7500 IN. YC
ZMRP 190.7500 IN. ZC
SCALE .0125

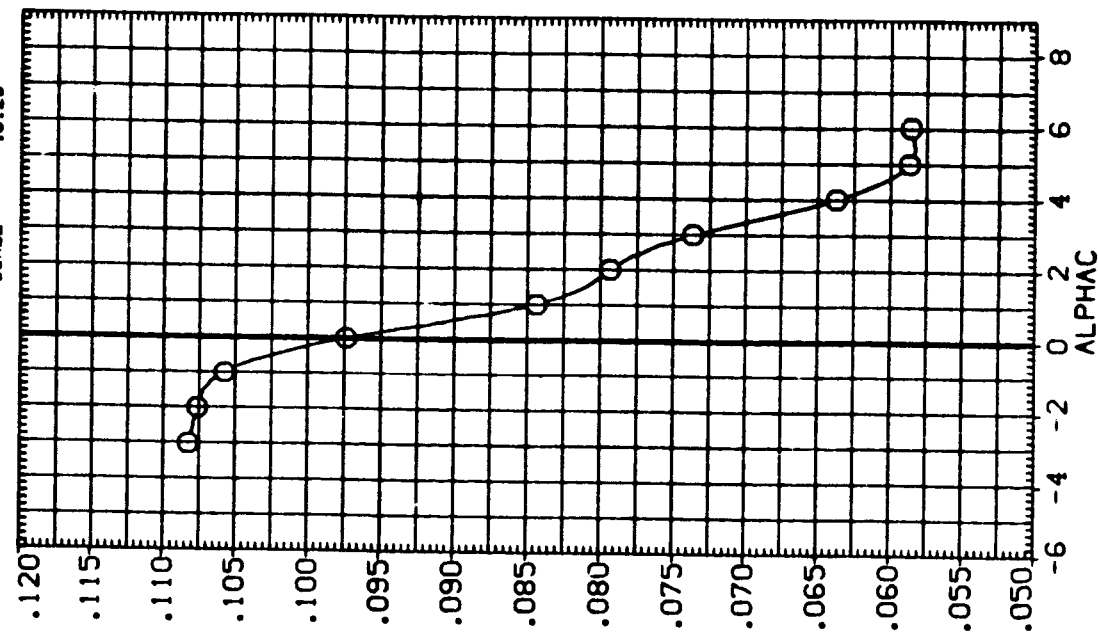
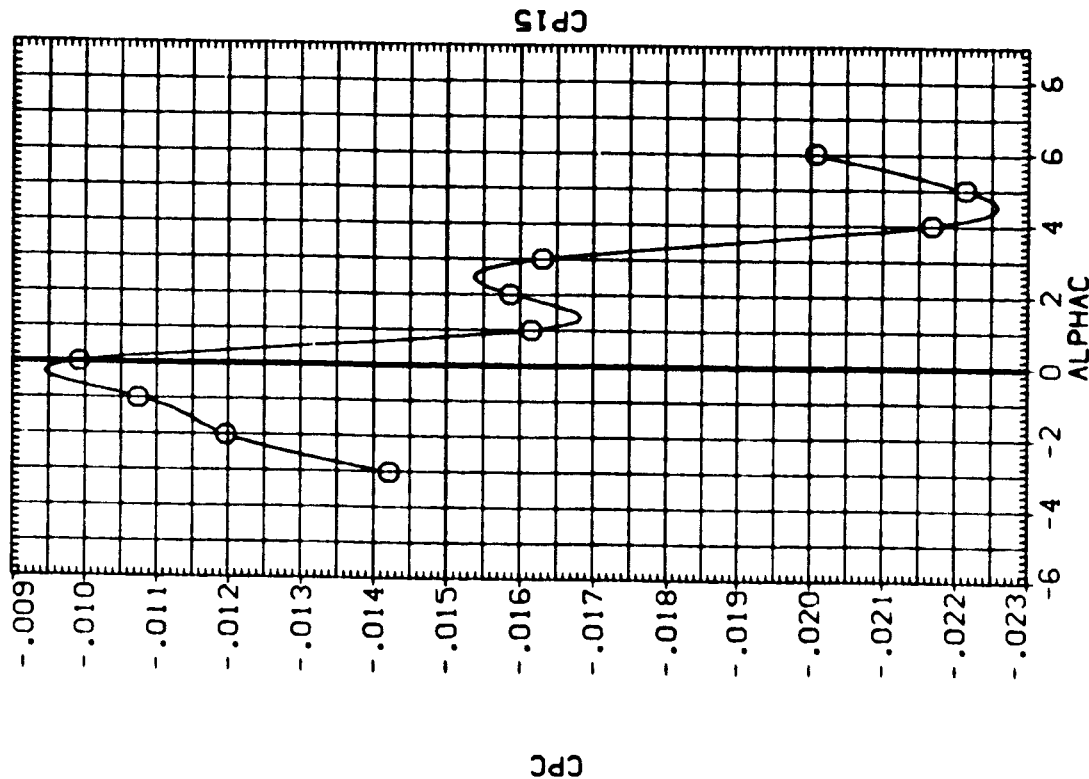


FIG.11 MATED (ORBITER + CARRIER) BASE AND CAVITY PRESSURES

(A)MACH = .60

REFERENCE INFORMATION		
SREF	5500.0000	50.FT.
LREF	327.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.9000	IN.
YMRP	.0000	IN.
ZMRP	190.7500	IN.
SCALE	.0125	IN.

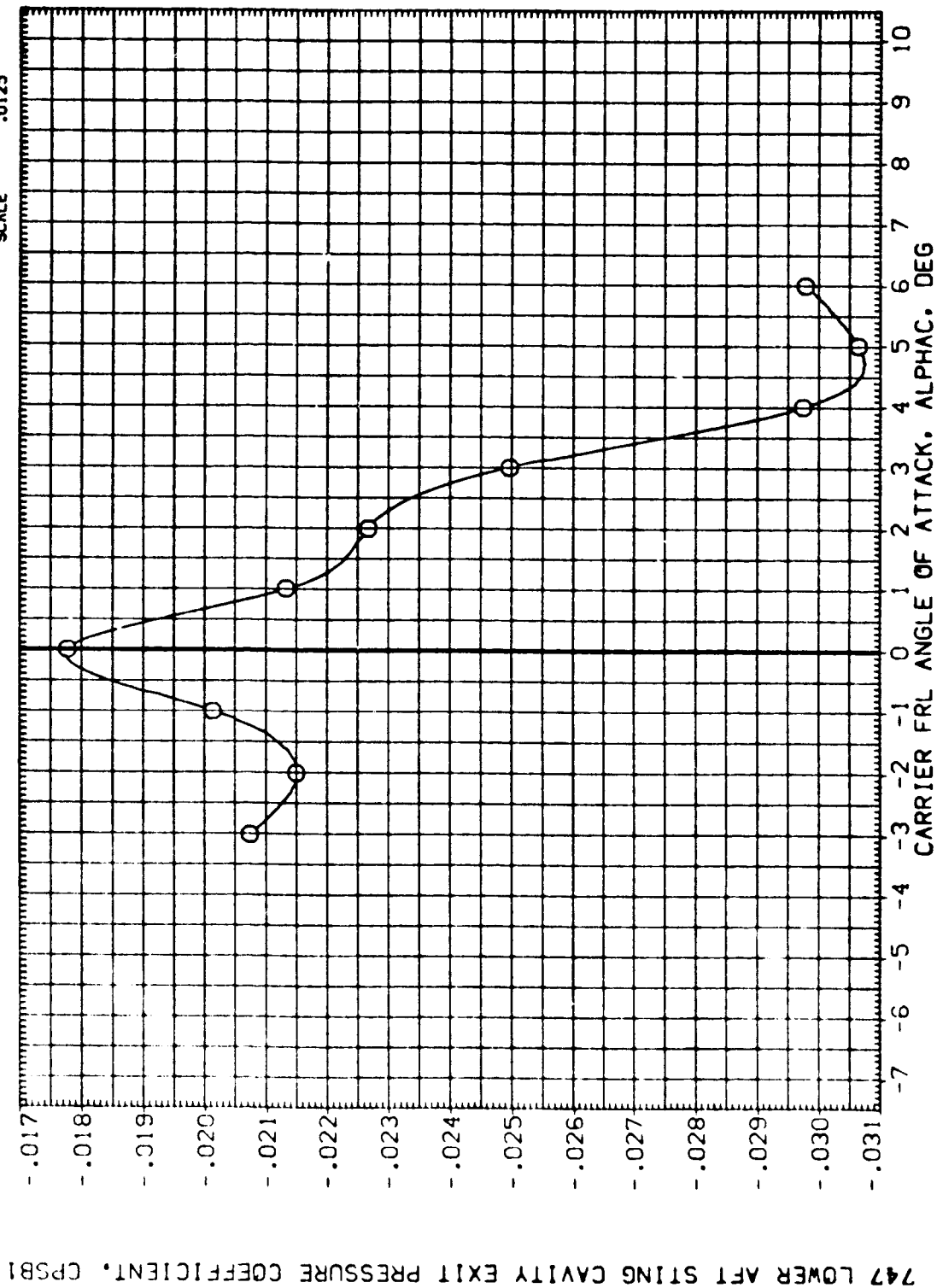


FIG. 11 MATED (ORBITER + CARRIER) BASE AND CAVITY PRESSURES

$$\{A\}MACH = .60$$

DATA SET SYMBOL (CE9061) ○ CONFIGURATION DESCRIPTION ARC14-080-1 CA23 747/1 03 AT1 (MATED)

BETAC -5.000 STAB-C -1.000 ELV-0 .000 I-008 4.000

REFERENCE INFORMATION
 SREF 5500.0000 SQ.FT.
 LREF 327.7800 IN.
 BREF 2348.0400 IN.
 XMRP 1339.9000 IN.
 YMRP 190.7500 IN.
 ZMRP 190.7500 IN.
 SCALE .0125

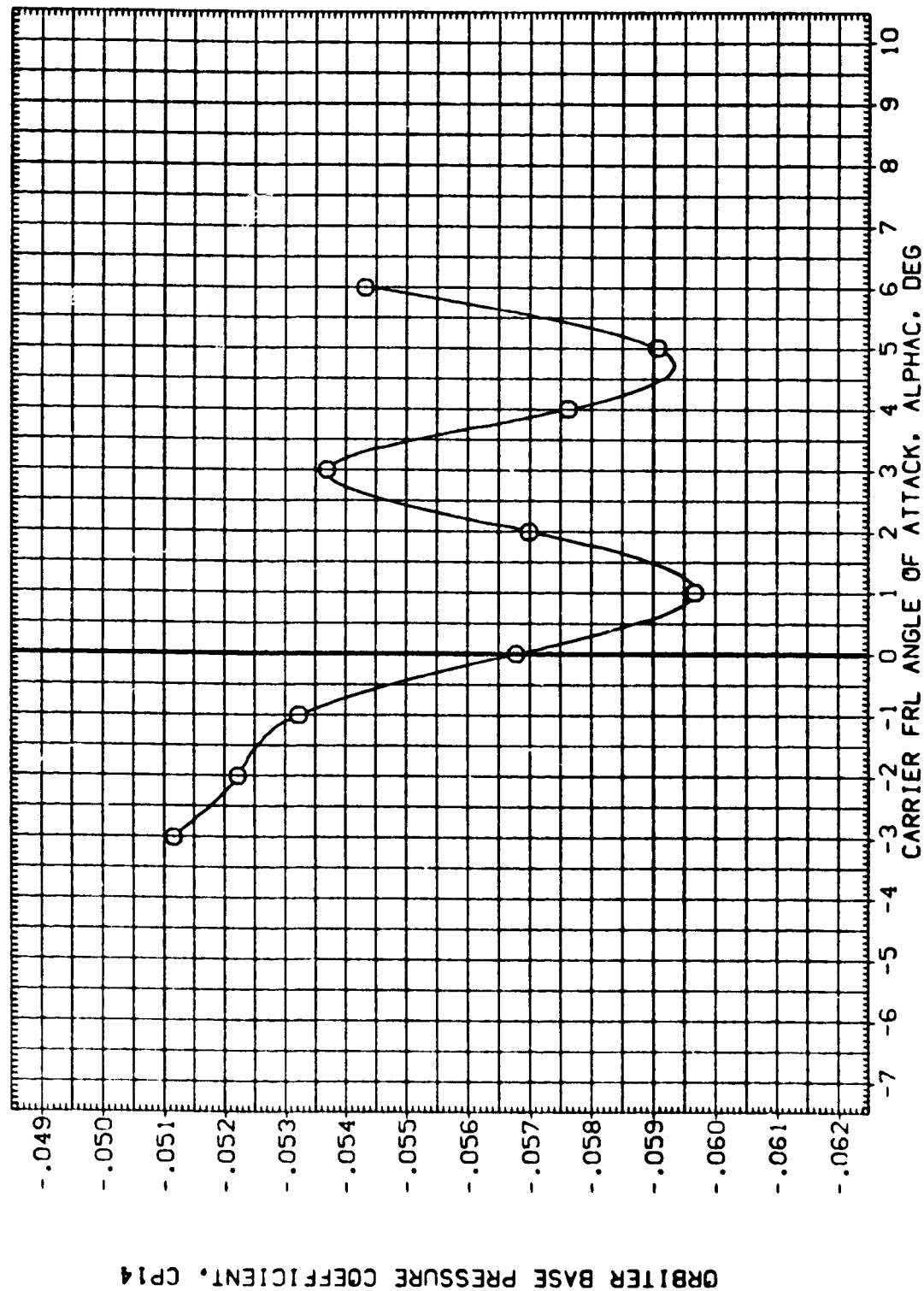


FIG.11 MATED (ORBITER + CARRIER) BASE AND CAVITY PRESSURES

(A)MACH = .60

DATA SET SYMBOL (CE9061) () CONFIGURATION DESCRIPTION
ARC14-08-1 CA23 747/1 03 AT1 (MATED)

BETAC STAB-C ELV-0 I-ORB
-5.000 -1.000 .000 4.000

REFERENCE INFORMATION
SREF 5500.0000 50. FT.
LREF 327.7800 IN.
BREF 2348.0400 IN.
XMRP 1339.9000 IN. XC
YMRP .0000 IN. YC
ZMRP 190.7500 IN. ZC
SCALE .0125

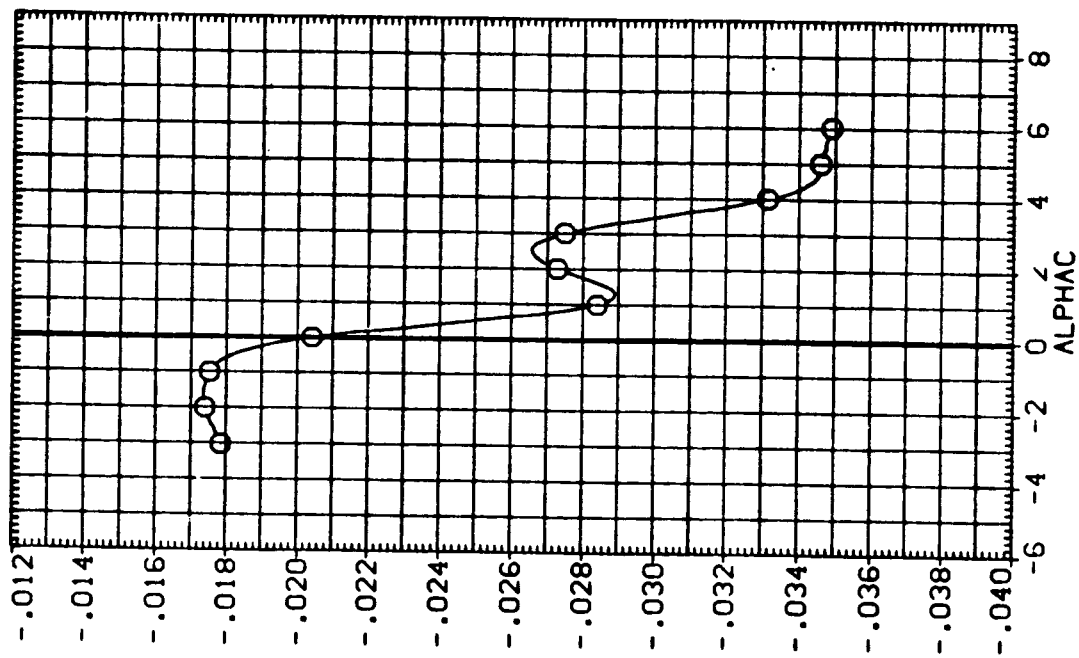
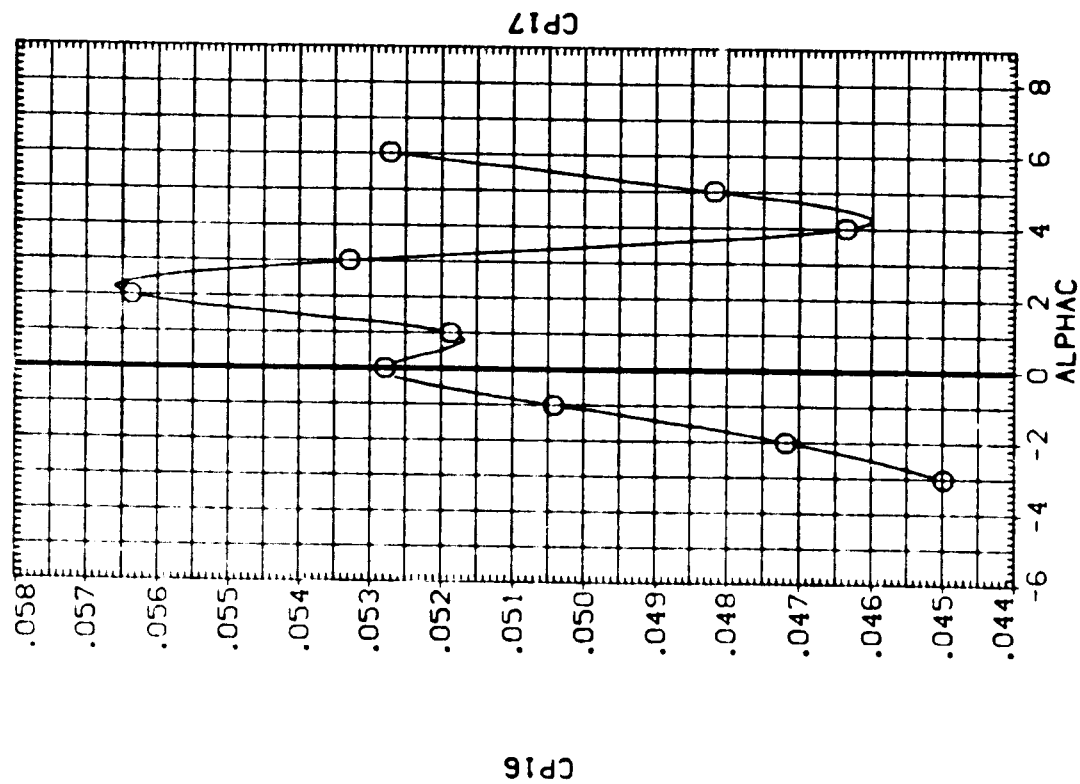


FIG.11 MATED (ORBITER + CARRIER) BASE AND CAVITY PRESSURES

(A)MACH = .60

DATA SET SYMBOL (CE9062) \bigcirc CONFIGURATION DESCRIPTION: ARC14-080-1 CA23 747/1(-S1-S12)03 ATI(MATED)

BETAC -5.000 STAB-C -1.000 ELV-0 .000 I-ORB 4.000

REFERENCE INFORMATION
 SREF 5500.0000 SQ.FT.
 LREF 327.7800 IN.
 BREF 2348.0400 IN.
 XMRP 1339.9000 IN. XC
 YMRP .0000 IN. YC
 ZMRP 190.7500 IN. ZC
 SCALE .0125

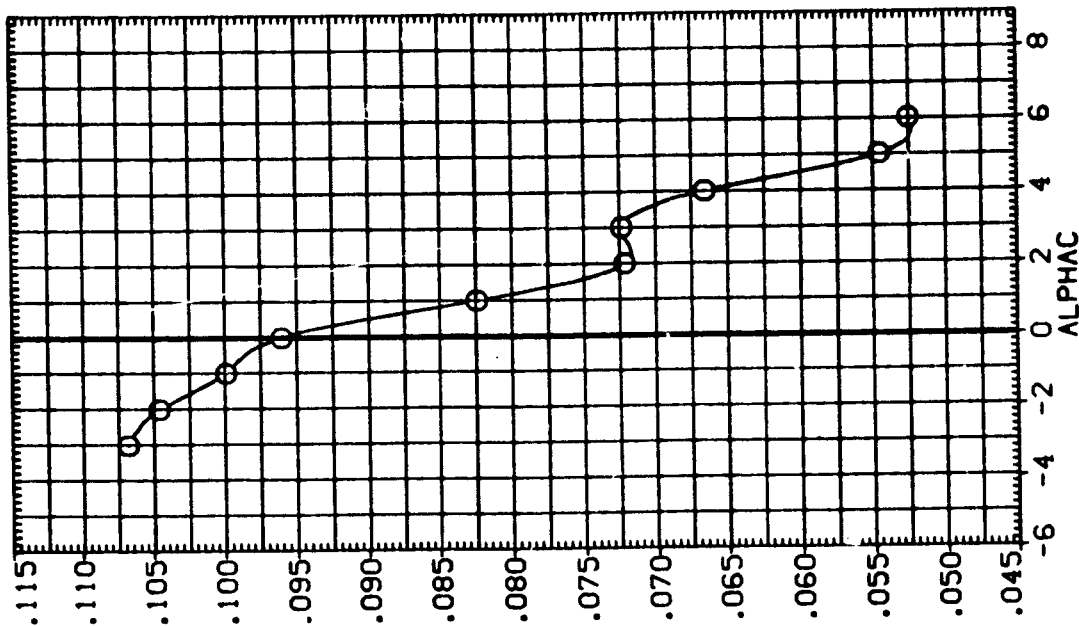
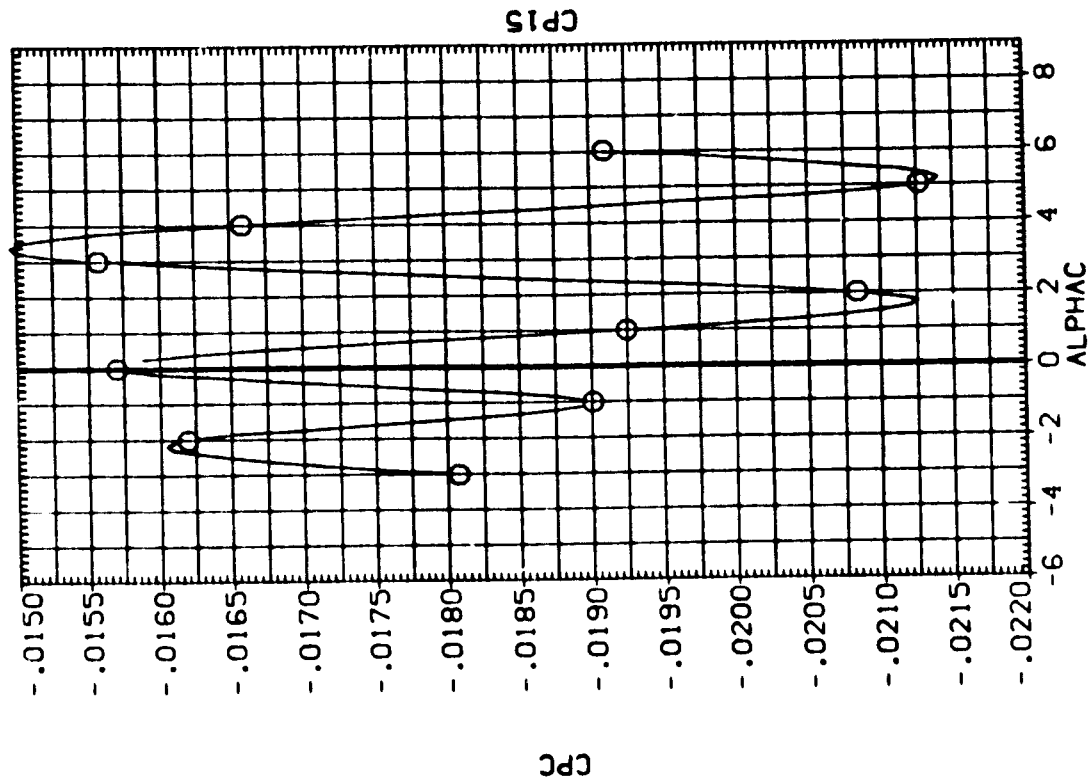


FIG.11 MATED (ORBITER + CARRIER) BASE AND CAVITY PRESSURES

(A)MACH = .60

REFERENCE INFORMATION

SREF	5500.0000	SO.FT.
LREF	377.7800	IN.
BREF	2348.0400	IN.
XMRP	1339.8000	IN.
YMRP	.0000	IN.
ZMRP	190.7500	IN.
SCALE	.0125	

BETAC STAB-C ELV-0 I-ORB

BETAC	-5.000
STAB-C	-1.000
ELV-0	.000
I-ORB	4.000

DATA SET SYMBOL: (CE9002) ○ CONFIGURATION DESCRIPTION: ARC14-CFO-1 CA23 747/1(-S1-S12)03 AT1(MATED)

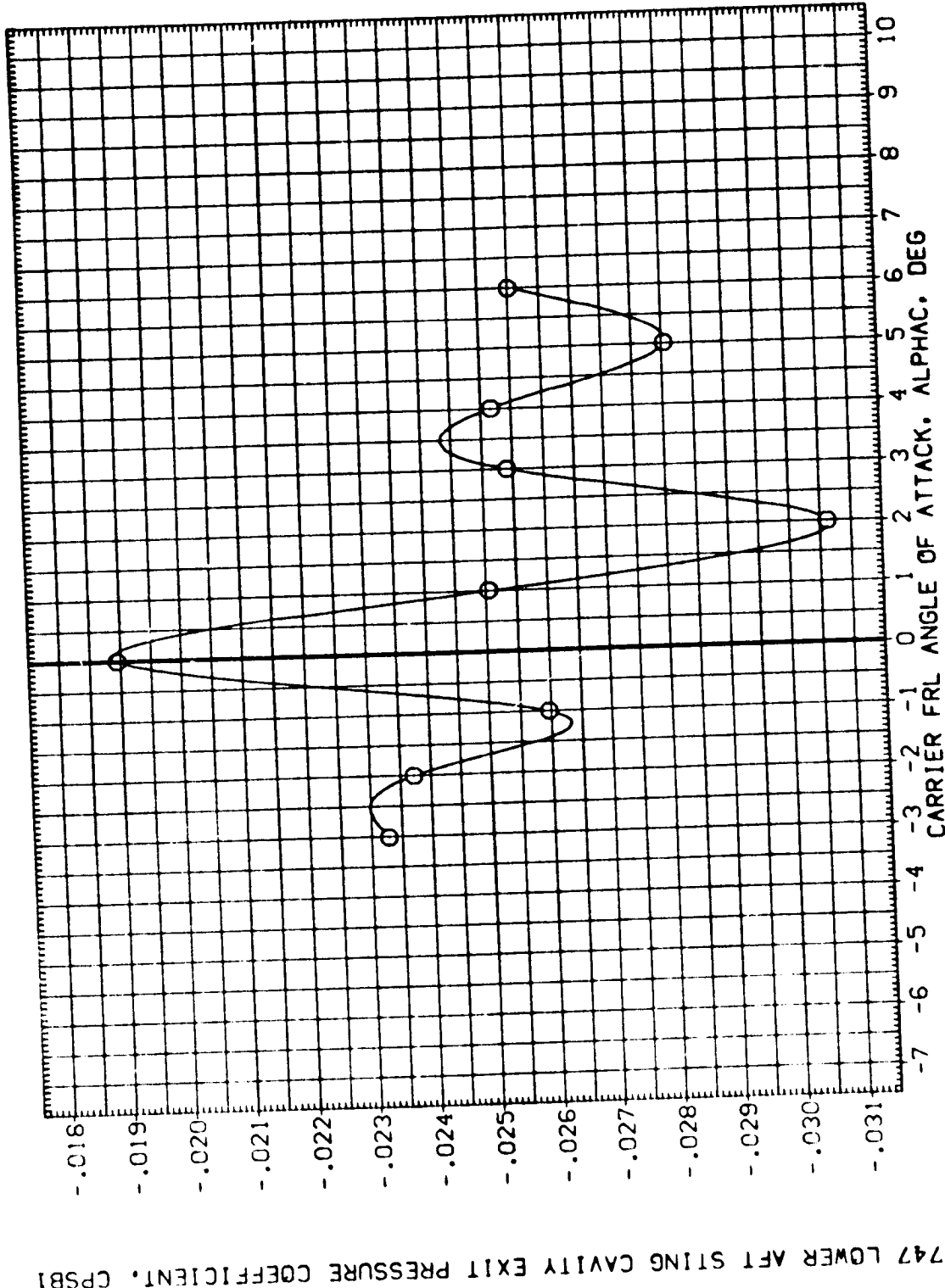


FIG. 11 MATED (ORBITER + CARRIER) BASE AND CAVITY PRESSURES

(A) MACH = .60

DATA SET SYMBOL (CE9062) ○

CONFIGURATION DESCRIPTION
ARC14-080-1 CA23 747/1(-S1-S12)03 AT1(MATED)

BETAC -5.000

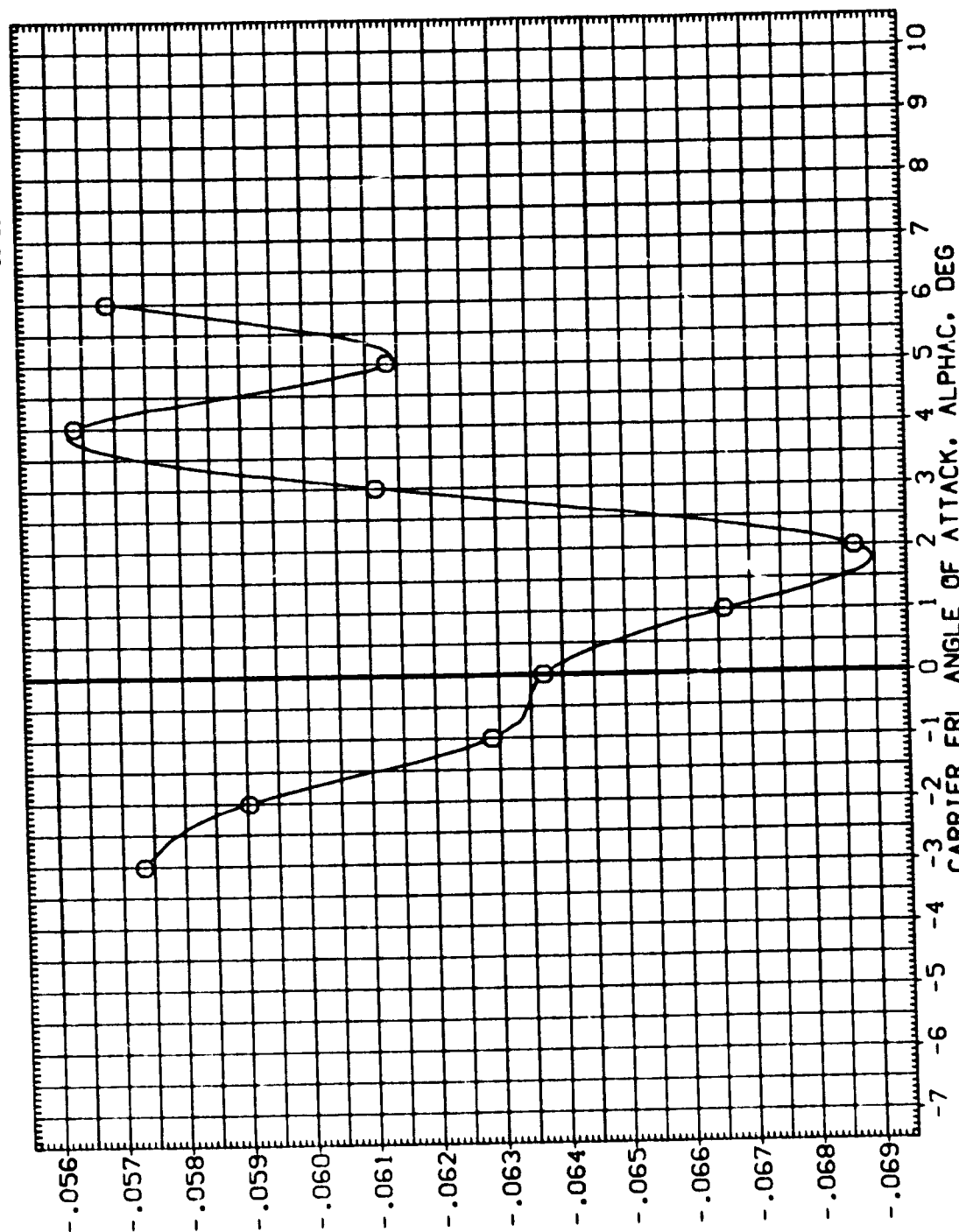
STAB-C -1.000

ELV-0 .000

I-OR8 4.000

REFERENCE INFORMATION

	SQ.FT.
SREF	5500.0000
LREF	327.7800
BREF	2348.0400
XMRP	1335.8000
YMRP	.0000
ZMRP	190.7500
SCALE	.0125



ORBITER BASE PRESSURE COEFFICIENT, CP14

FIG.11 MATED (ORBITER + CARRIER) BASE AND CAVITY PRESSURES

(M)MACH = .60



DATA SET SYMBOL: (CE9062) CONFIGURATION DESCRIPTION: ARC14 080-1 CA23 747/1(-S1-S12)03 AT1(MATED)

BETAC STAB-C ELV-0 1-ORB
-5.000 -1.000 .000 4.000

REFERENCE INFORMATION
SREF 5500.0000 SQ.FT.
LREF 327.7800 IN.
BREF 2348.0400 IN.
XMRP 1339.9000 IN. XC
YMRP .0000 IN. YC
ZMRP 190.7500 IN. ZC
SCALE .0125

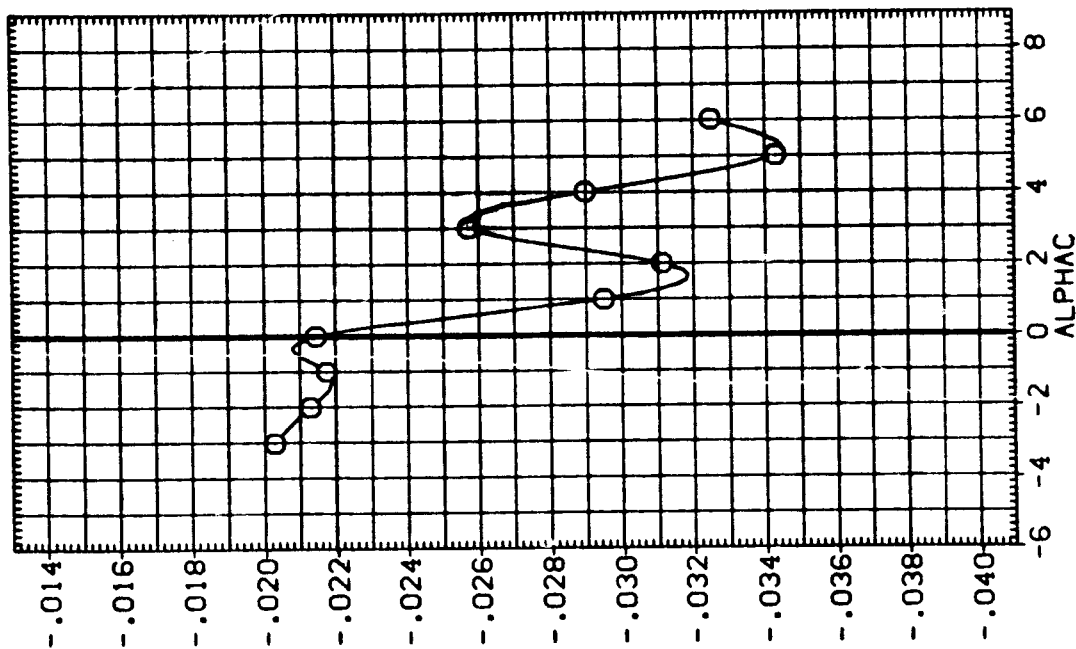
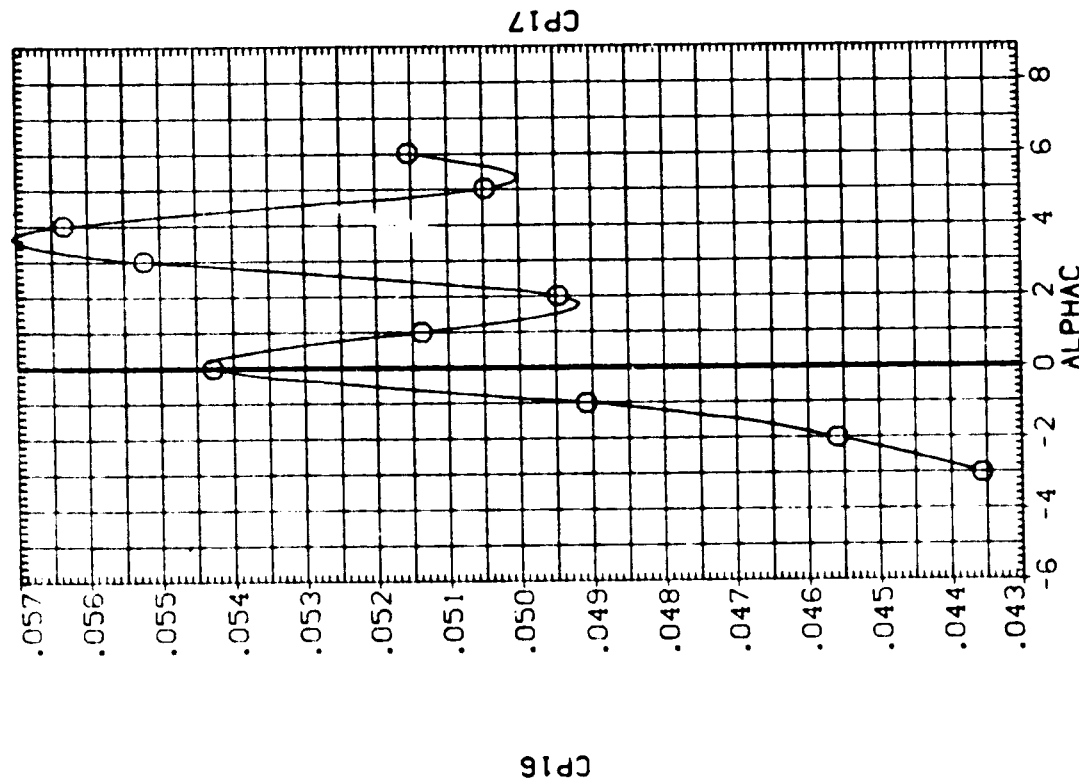


FIG.11 MATED (ORBITER + CARRIER) BASE AND CAVITY PRESSURES

(A)MACH = .60

DATA SET SYMBOL (CE9063) 8
 CONFIGURATION DESCRIPTION
 ARC14-080-1 CA23 747/1(-S1-S12)01 AT1(MATED)
 ARC14-080-1 CA23 747/1(-S1-S12)01 AT1(MATED)

BETAC STAB-C ELV-0 I-ORB
 -5.000 5.000 8.000
 -5.000 5.000 6.000

REFERENCE INFORMATION
 SREF 5500.0000 SQ.FT.
 LREF 327.7800 IN.
 BREF 2348.0400 IN.
 XMRP 1339.9000 IN.
 YMRP .0000 IN.
 ZMRP 190.7500 IN.
 SCALE .0125

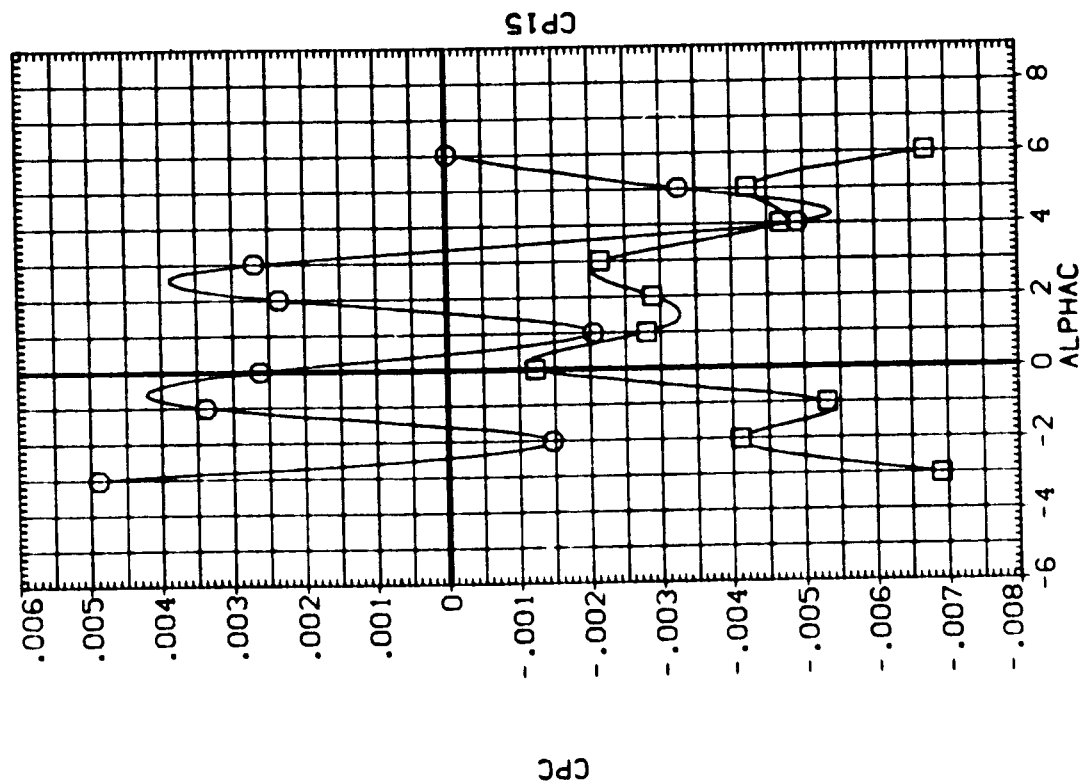
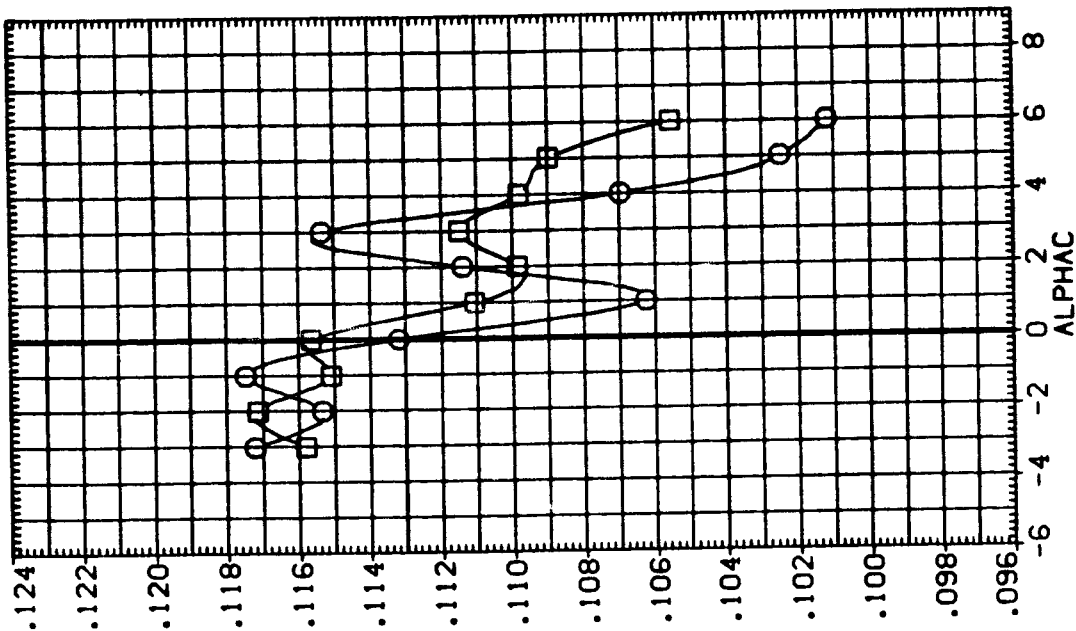


FIG.11 MATED (ORBITER + CARRIER) BASE AND CAVITY PRESSURES

(A) MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETAC	STAB-C	ELV-O	I-ORB	REFERENCE INFORMATION
(CE9063)	ARC14-080-1 CA23 747/1(-S1-S12)01 AT1(MATED)	-5.000	5.000	5.000	8.000	SREF 5500.0000 SQ.FT.
(CE9064)	ARC14-080-1 CA23 747/1(-S1-S12)01 AT1(MATED)	-5.000	5.000	5.000	6.000	LREF 327.7800 IN.
						BREF 2348.0400 IN.
						YMRP 1339.5000 IN.
						ZMRP 190.7500 IN.
						SCALE .0125

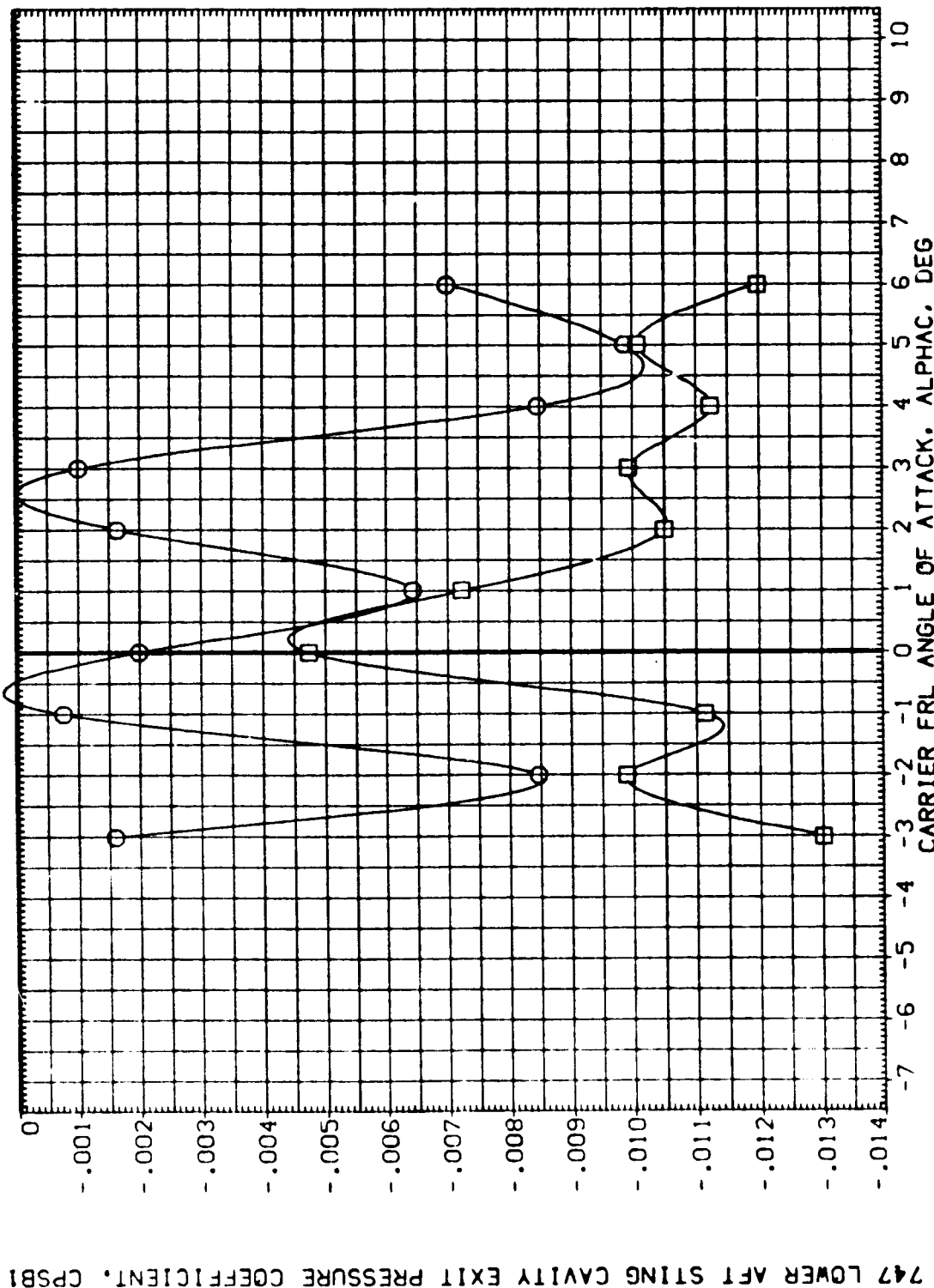


FIG.11 MATED (ORBITER + CARRIER) BASE AND CAVITY PRESSURES

(A)MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION REFERENCE INFORMATION

(CE9063)	ARC14-080-1 CA23 747/1(-S1-S12)01 AT1(MATED)	SREF	5500.0000	SO.FT.
(CE9064)	ARC14-080-1 CA23 747/1(-S1-S12)01 AT1(MATED)	LREF	327.7800	IN.
		BREF	2348.0400	IN.
		YMRP	1339.9000	IN. YC
		ZMRP	190.7500	IN. ZC
		SCALE	.0125	

BETAC STAB-C ELV-0 I-ORB

-5.000 5.000 5.000 8.000

-5.000 5.000 5.000 6.000

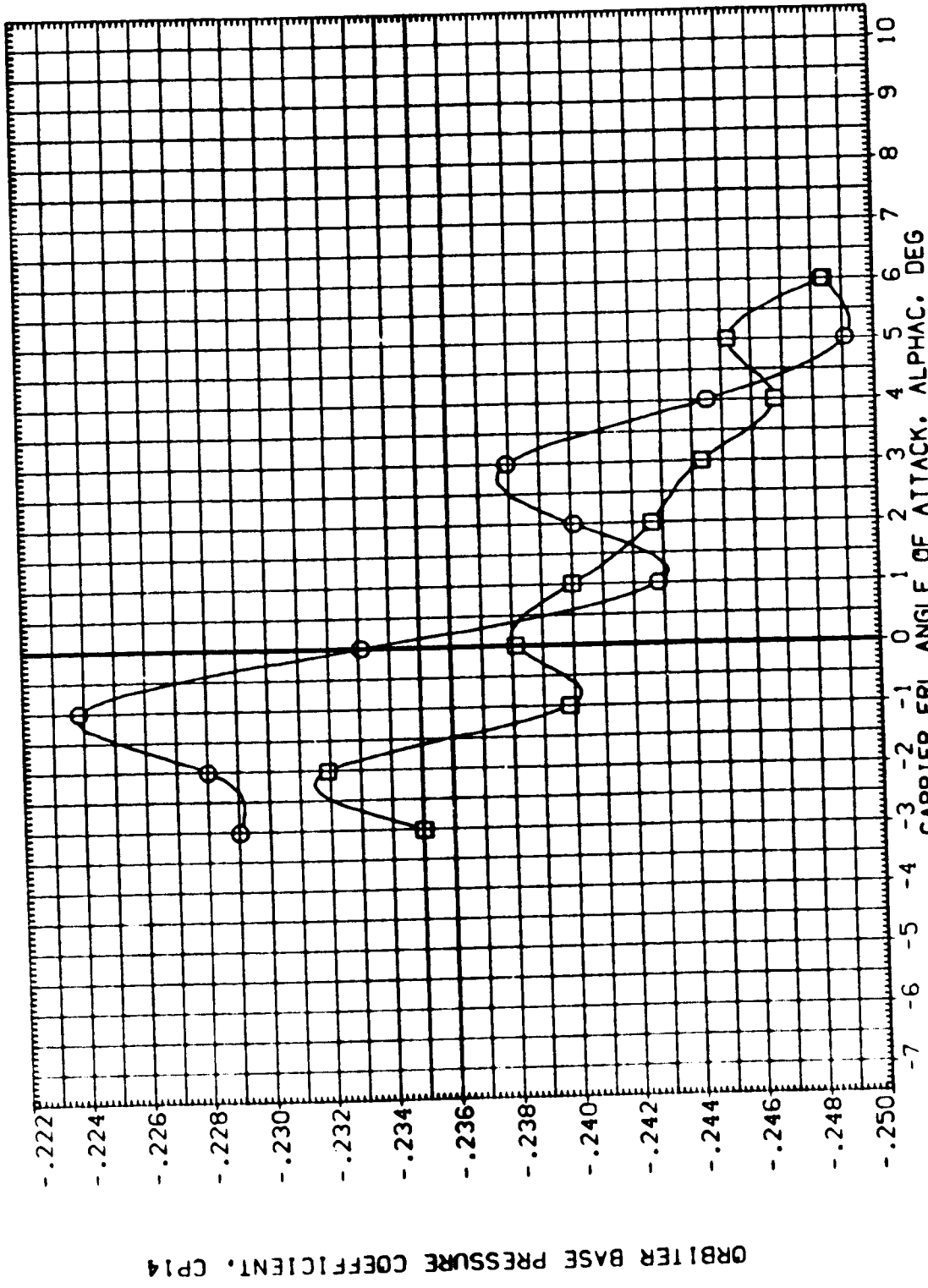


FIG.11 MATED (ORBITER + CARRIER) BASE AND CAVITY PRESSURES

(A)MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (CE9063) 8 ARC14-080-1 CA23 747/1(-S1-S12)01 ATI(MATED)
 (CE9064) 8 ARC14-080-1 CA23 747/1(-S1-S12)01 ATI(MATED)

BETAC STAB-C ELV-0 I-ORB
 -5.000 5.000 5.000 8.000
 -5.000 5.000 5.000 6.000

REFERENCE INFORMATION
 SREF 5500.0000 SO.FT.
 LREF 327.7800 IN.
 BREF 2348.0400 IN.
 XMRP 1339.9000 IN. XC
 YMRP .0000 IN. YC
 ZMRP 190.7500 IN. ZC
 SCALE .0125

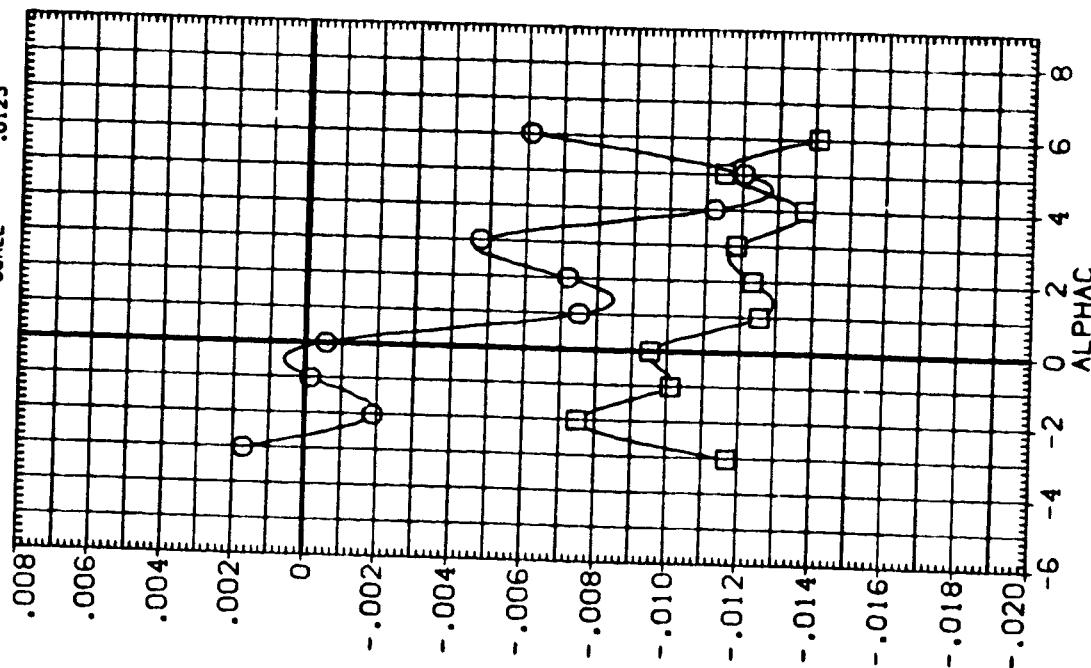
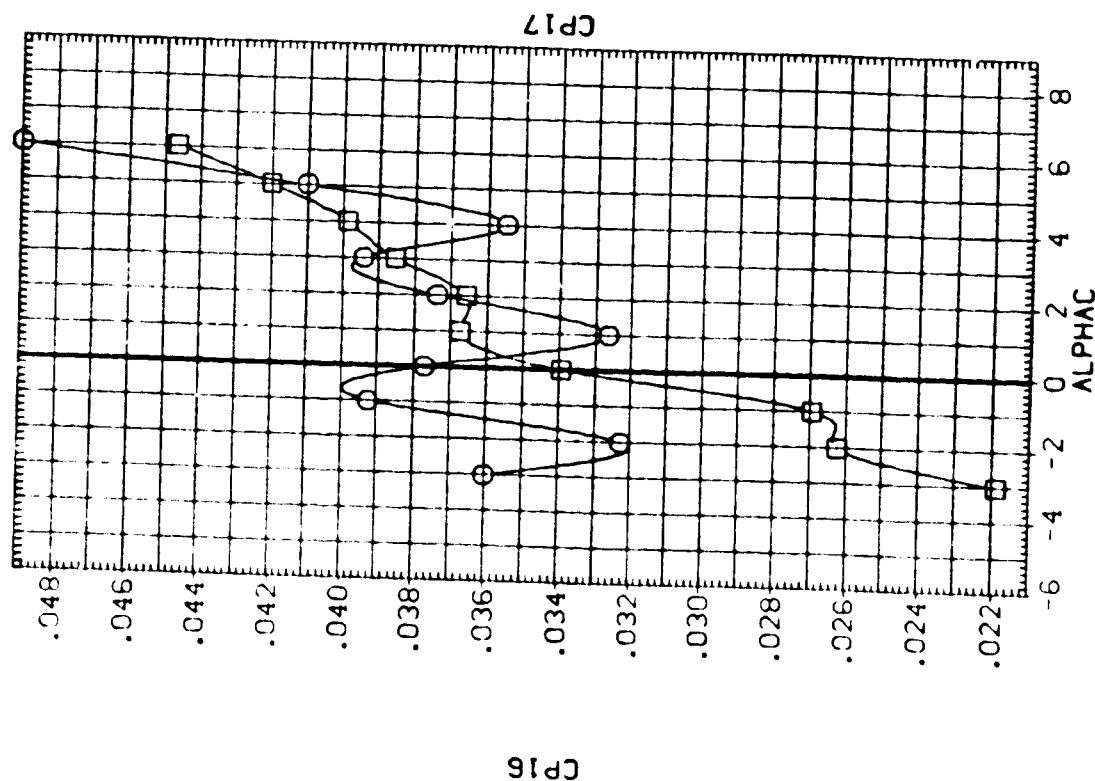


FIG.11 MATED (ORBITER + CARRIER) BASE AND CAVITY PRESSURES

(A)MACH = .60

REPRODUCIBILITY OF THE
 ORIGINAL PAGE IS POOR

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (CE9066) ARCL4-080-1 CA23 747/1 01 AT1 (MATED)
 (CE9065) ARCL4-080-1 CA23 747/1 01 AT1 (MATED)
 (CE9067) ARCL4-080-1 CA23 747/1 01 AT1 (MATED)

BETAC STAB-C ELV-0 I-088
 -5.000 5.000 5.000 4.000
 -5.000 5.000 5.000 6.000
 -5.000 5.000 5.000 8.000

REFERENCE INFORMATION
 SREF 5500.0000 50. FT.
 LREF 327.7800 IN.
 BREF 2348.0400 IN.
 XHRP 1339.9000 IN.
 YHRP 190.7500 IN.
 ZHRP 190.7500 IN.
 SCALE .0125

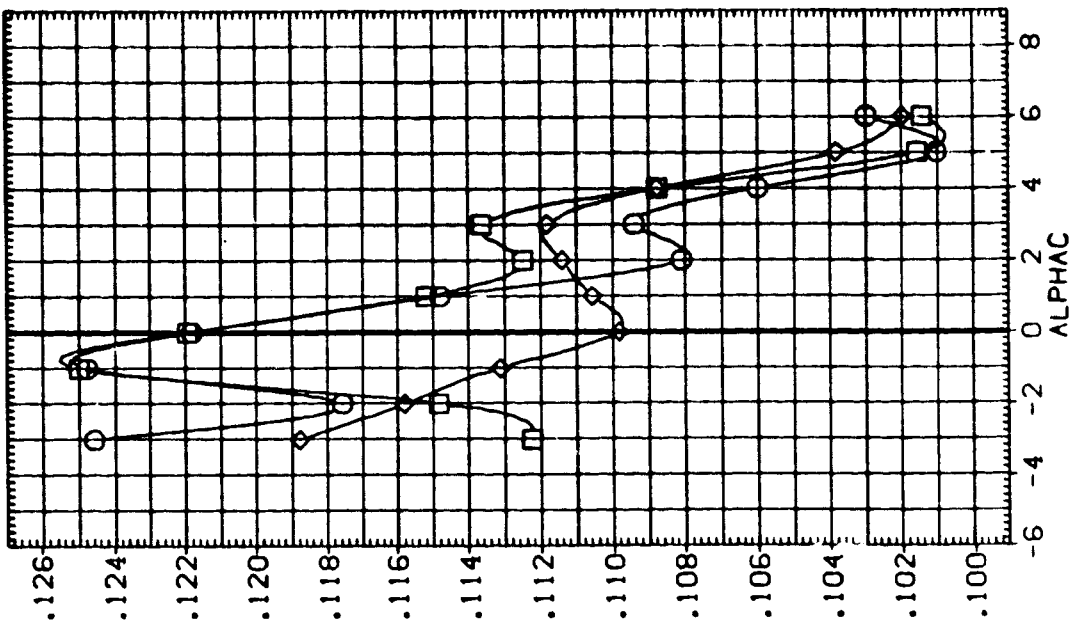
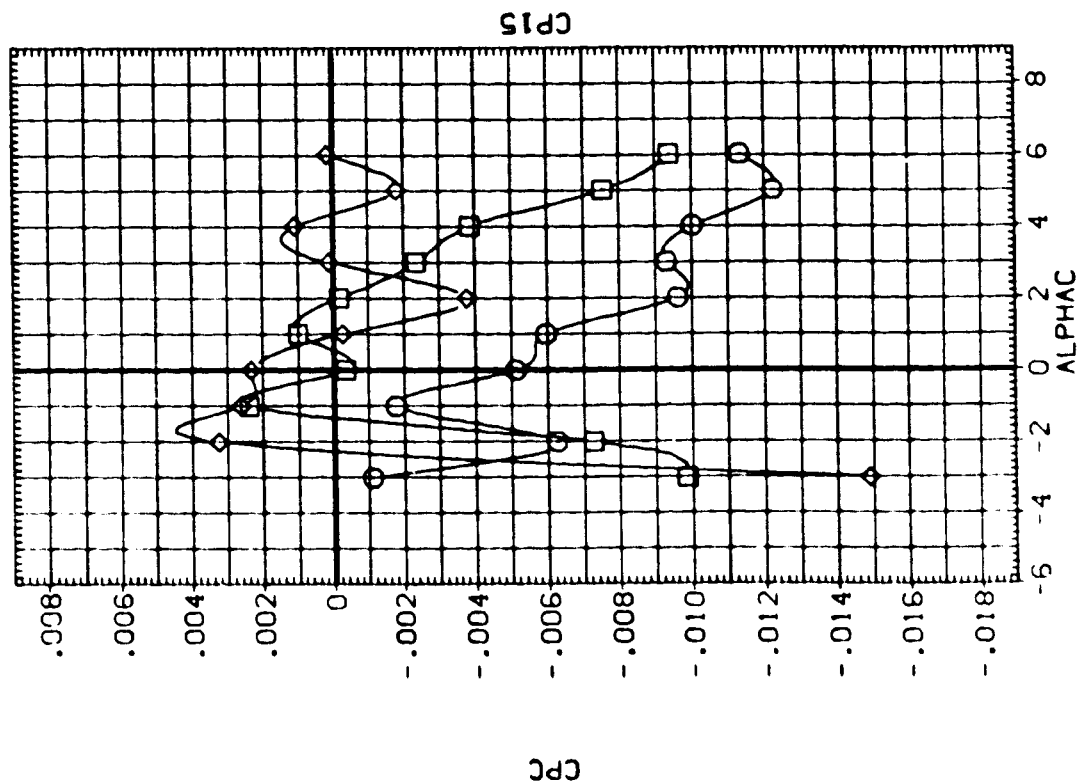


FIG.11 MATED (ORBITER + CARRIER) BASE AND CAVITY PRESSURES

(A)MACH = .60

DATA SET SYMBOL: CONFIGURATION DESCRIPTION

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETAC	STAB-C	ELV-O	I-ORB	REFERENCE INFORMATION
(CE9068)	ARC14-080-1 CA23 747/1 01 AT1 (MATED)	-5.000	5.000	5.000	4.000	SREF 5500.0000 SO.FT.
(CE9069)	ARC14-080-1 CA23 747/1 01 AT1 (MATED)	-5.000	5.000	5.000	6.000	LREF 327.7800 IN.
(CE9070)	ARC14-080-1 CA23 747/1 01 AT1 (MATED)	-5.000	5.000	5.000	8.000	BREF 2348.0400 IN.
						XMRP 1339.9000 IN. XC
						YMRP .0000 IN. YC
						ZMRP 190.7500 IN. ZC
						SCALE .0125

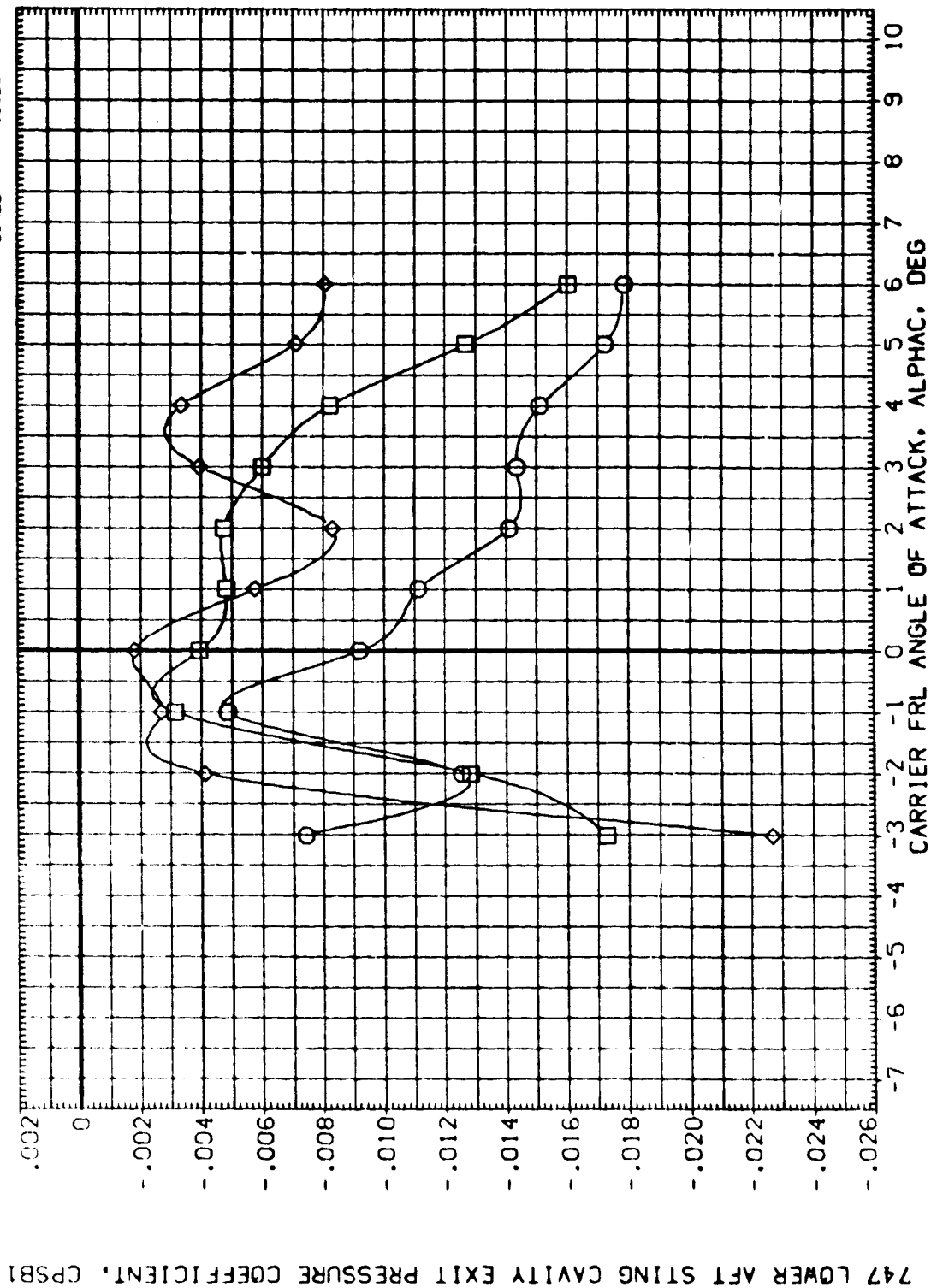


FIG.11 MATED (ORBITER + CARRIER) BASE AND CAVITY PRESSURES

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETAC	STAB-C	ELV-0	1-ORB	REFERENCE INFORMATION
(CE9066)	ARC14-080-1 CA23 747/1 01 AT1 (MATED)	-5.000	5.000	5.000	4.000	SREF 5500.0000 SQ.FT.
(CE9065)	ARC14-080-1 CA23 747/1 01 AT1 (MATED)	-5.000	5.000	5.000	6.000	LREF 327.7800 IN.
(CE9067)	ARC14-080-1 CA23 747/1 01 AT1 (MATED)	-5.000	5.000	5.000	8.000	BREF 2348.0400 IN.
						XMRP 1339.9000 IN. XC
						YMRP .0000 IN. YC
						ZMRP 190.7500 IN. ZC
						SCALE .0125

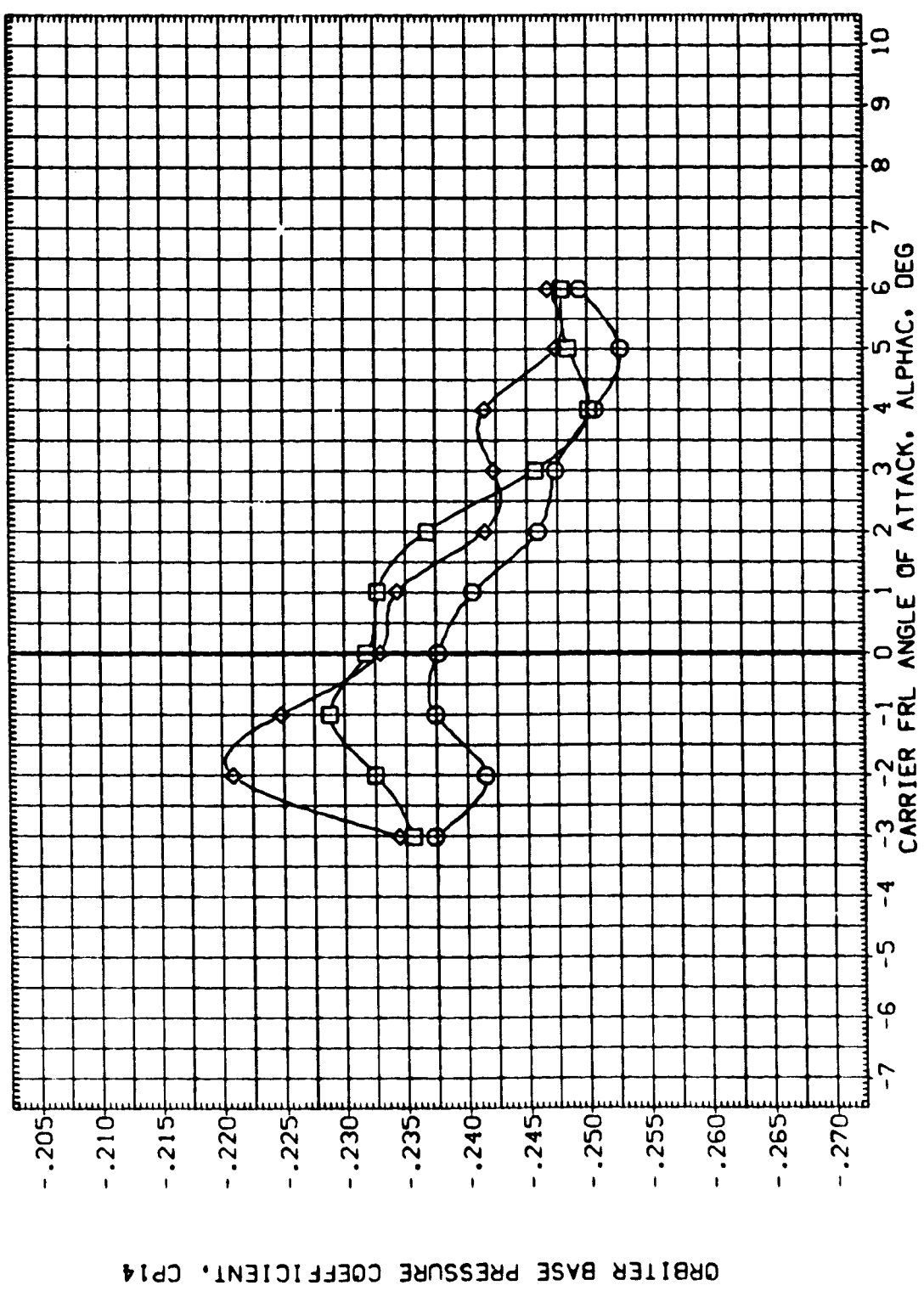


FIG.11 MATED (ORBITER + CARRIER) BASE AND CAVITY PRESSURES

(A)MACH = .60

DATA SET SYMBOL: CONFIGURATION DESCRIPTION
 (CE9066) ARC14-080-1 CA23 747/1 01 ATI (MATED)
 (CE9067) ARC14-080-1 CA23 747/1 01 ATI (MATED)
 (CE9068) ARC14-080-1 CA23 747/1 01 ATI (MATED)

BETAC STAB-C ELV-0 I-088 REFERENCE INFORMATION
 -5.000 5.000 5.000 4.000 SREF 5500.0000 SQ.FT.
 -5.000 5.000 5.000 6.000 LREF 327.7800 IN.
 -5.000 5.000 5.000 8.000 BREF 2348.0400 IN.
 XMRP 1339.9000 IN. XC
 YMRP .0000 IN. YC
 ZMRP 190.7500 IN. ZC
 SCALE .0125

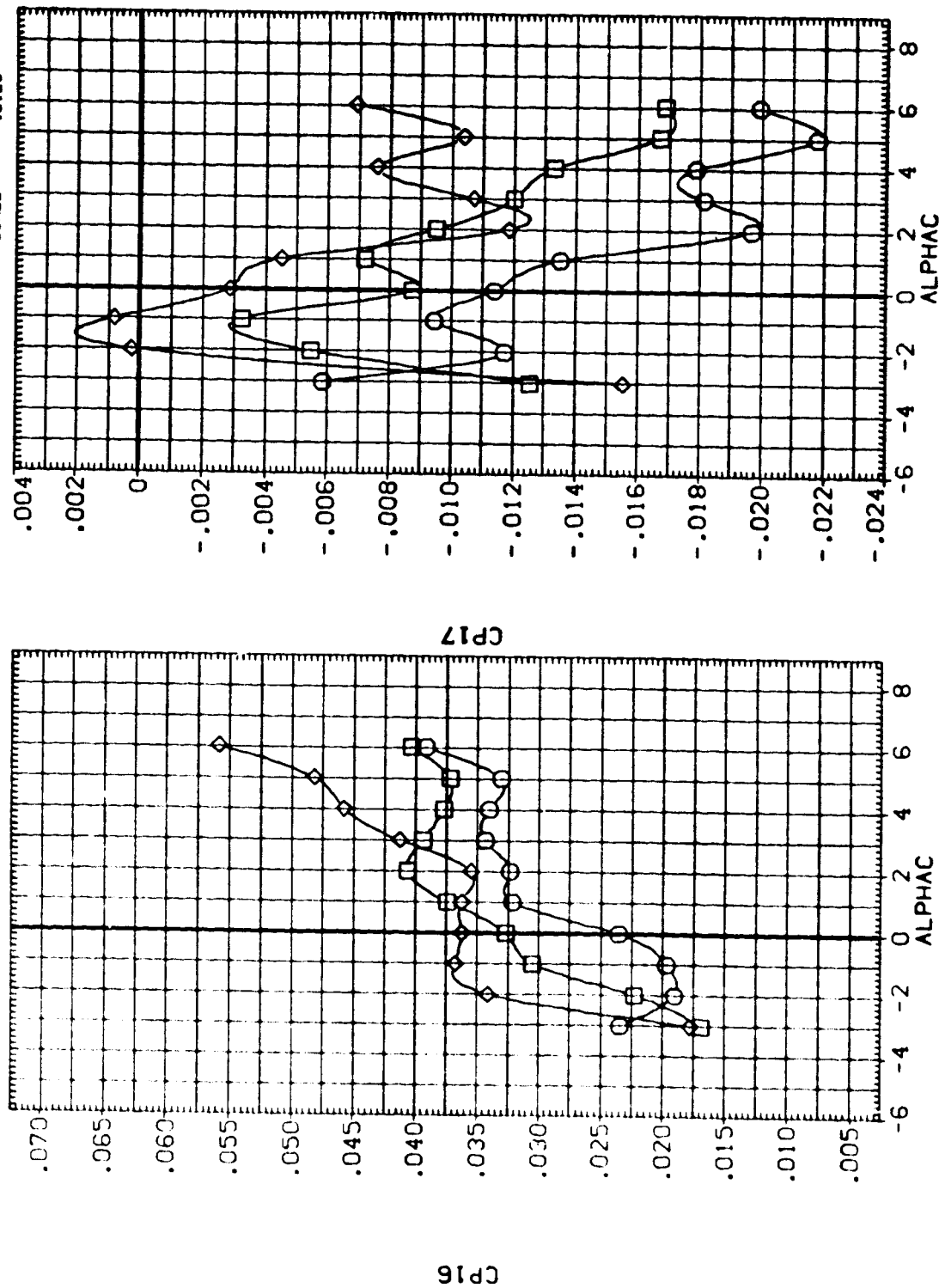


FIG.11 MATED (ORBITER + CARRIER) BASE AND CAVITY PRESSURES

(A)MACH = .60

DATA SET SYMBOL: (CE9068) \bigcirc CONFIGURATION DESCRIPTION: ARC14-080-1 CA23 747/1 01 AT2 (MATED)

BETAC STAB-C ELV-0 I-ORB
-5.000 5.000 5.000 6.000

REFERENCE INFORMATION
SREF 5500.0000 50.FT.
LREF 327.7800 IN.
BREF 2348.0400 IN.
XMRP 1339.9000 IN. XC
YMRP .0000 IN. YC
ZMRP 190.7500 IN. ZC
SCALE .0125

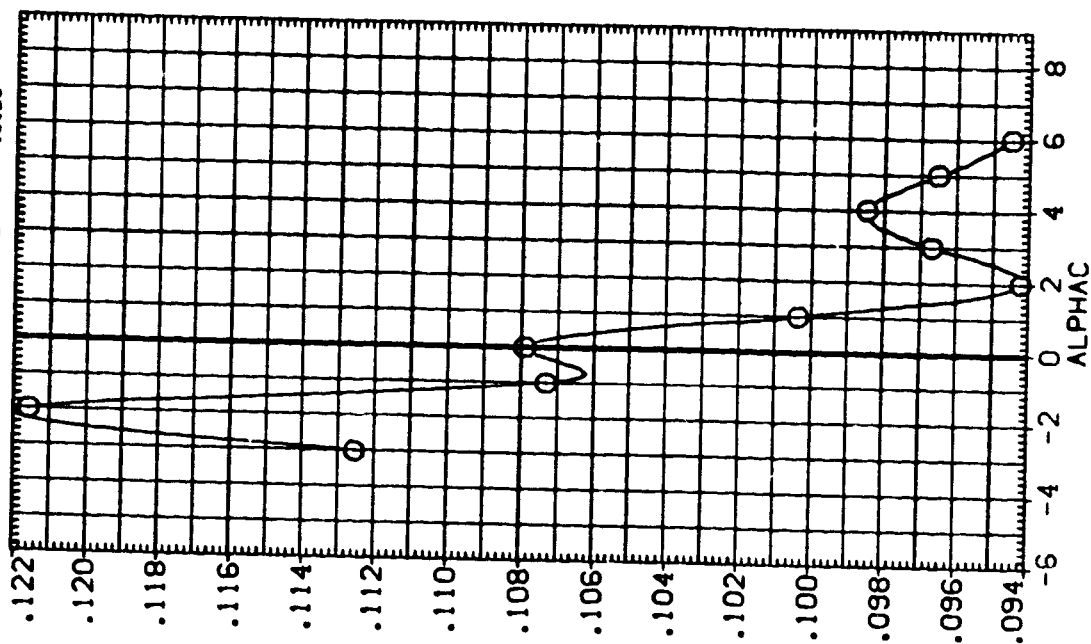
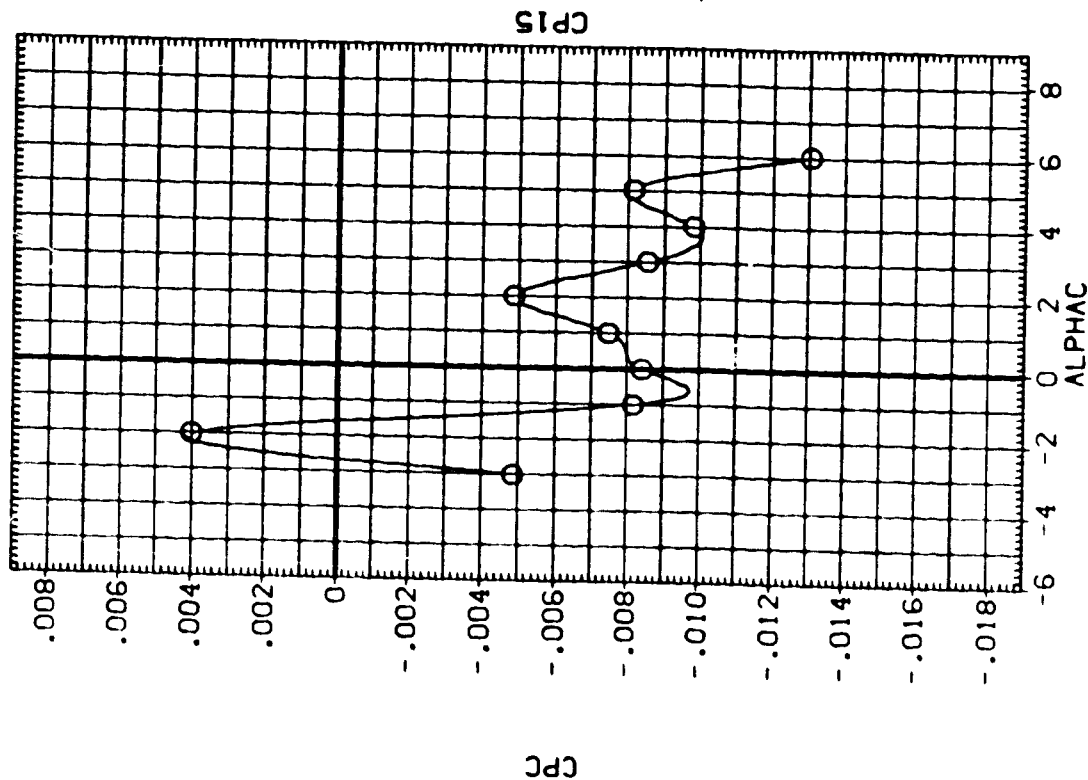


FIG.11 MATED (ORBITER + CARRIER) BASE AND CAVITY PRESSURES

(A) MACH = .60

DATA SET SYMBOL: CONFIGURATION DESCRIPTION
 (29059) ○ ARC14 (B)-1 CA23 747/1 01 AT2 (MATED)

BETAC -5.000 STAB-C ELV-0 5.000 1-ORB 6.000

REFERENCE INFORMATION
 SREF 5500.0000 50.FT.
 LREF 327.7800 IN.
 BREF 2348.0400 IN.
 XMRP 1339.9000 IN. XC
 YMRP .0000 IN. YC
 ZMRP 190.7500 IN. ZC
 SCALE .0125

747 LOWER AFT STING CAVITY EXIT PRESS. COEFFICIENT, CP(SB1)

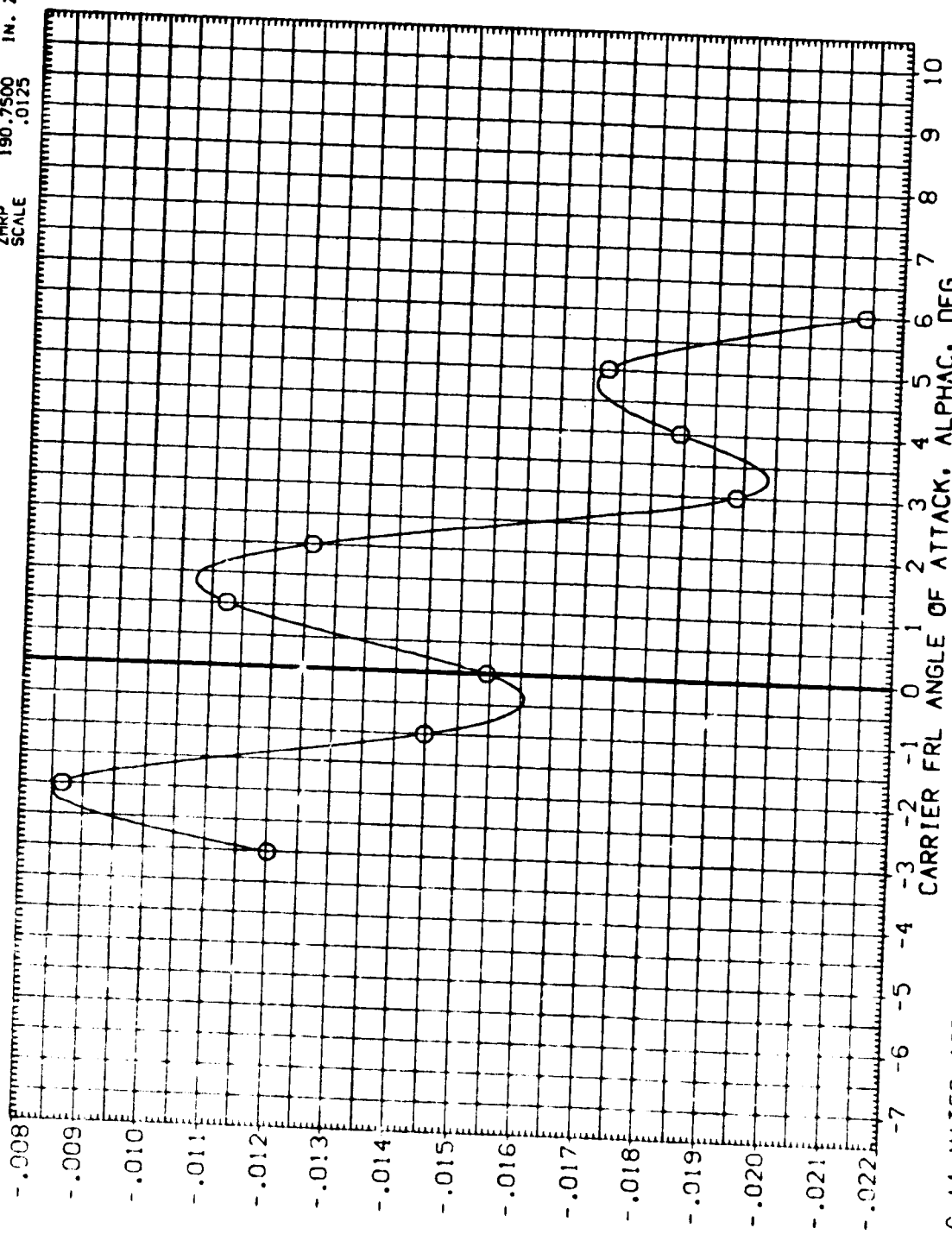


FIG. 11 MATED (ORBITER + CARRIER) BASE AND CAVITY PRESSURES
 (A) MACH = .60

DATA SET SYMBOL (CE9068) \bigcirc CONFIGURATION DESCRIPTION ARC14-080-1 CA23 747/1 01 AT2 (MATED)

BETAC -5.000 STAB-C 5.000 ELV-0 5.000 I-ORB 6.000
 SREF 5500.0000 SQ.FT.
 LREF 327.7800 IN.
 BREF 2348.0400 IN.
 XMRP 1339.8000 IN.
 YMRP 190.7500 IN.
 ZMRP 190.7500 IN.
 SCALE .0125

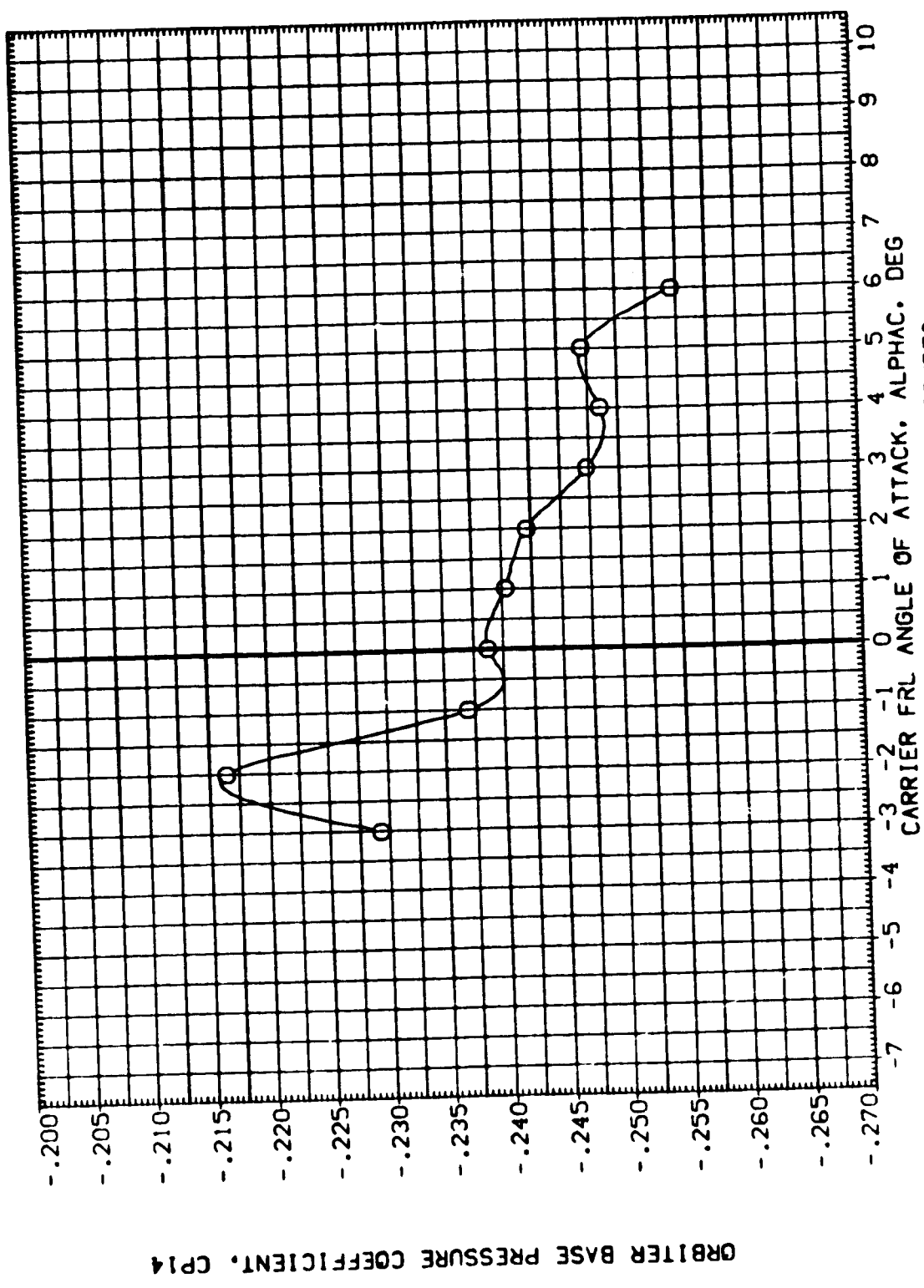


FIG.11 MATED (ORBITER + CARRIER) BASE AND CAVITY PRESSURES

(A)MACH = .60



DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (CE9088) ○ ARC14-080-1 CA23 747/1 01 AT2 (MATED)

BETAC STAB-C ELV-B I-ORB
 -5.000 5.000 5.000 6.000

REFERENCE INFORMATION
 SREF 5500.0000 SQ.FT.
 LREF 327.7800 IN.
 BREF 2348.0400 IN.
 XMRP 1339.9000 IN. XC
 YMRP .0000 IN. YC
 ZMRP 190.7500 IN. ZC
 SCALE .0125

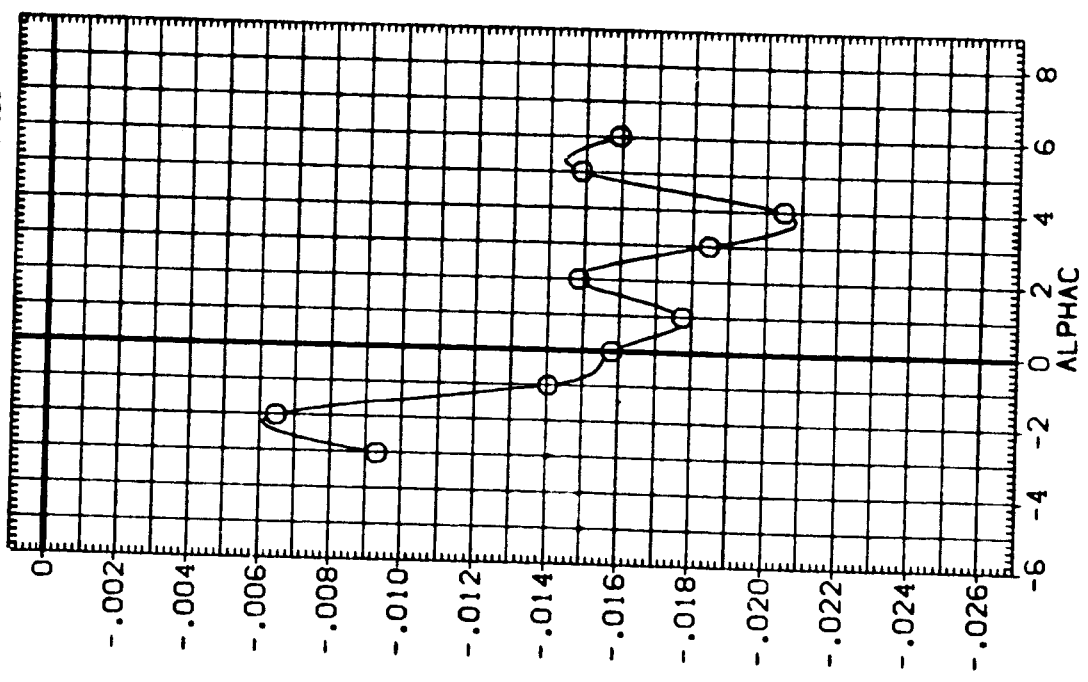
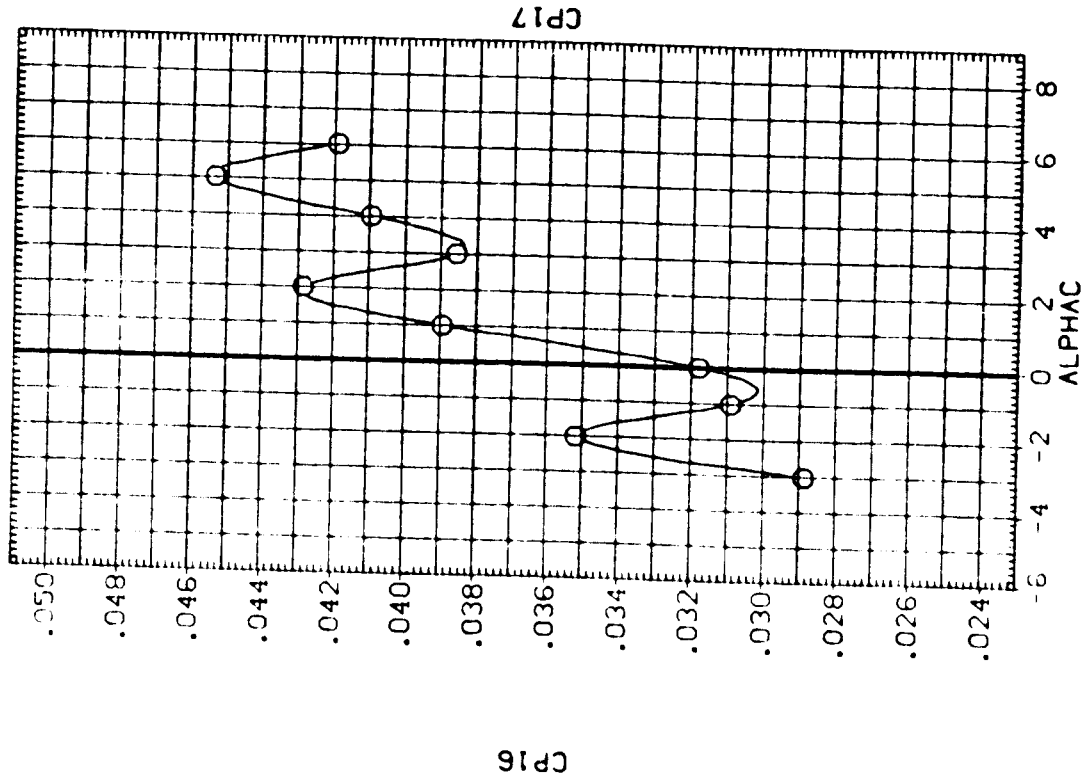


FIG.11 MATED (ORBITER + CARRIER) BASE AND CAVITY PRESSURES
 (A)MACH = .60

REPRODUCIBILITY OF THE
 ORIGINAL PAGE IS POOR

DATA SET SYMBOL (CE9069) ○ CONFIGURATION DESCRIPTION ARC14-080-1 CA23 747/1 61 AT3 (MATED)

BETAC STAB-C ELV-0 I-OR8
-5.000 5.000 5.000 6.000

REFERENCE INFORMATION
SREF 5500.0000 SQ.FT.
LREF 327.7800 IN.
BREF 2348.0400 IN.
XMRP 1339.9000 IN. XC
YMRP .0000 IN. YC
ZMRP 190.7500 IN. ZC
SCALE .0125

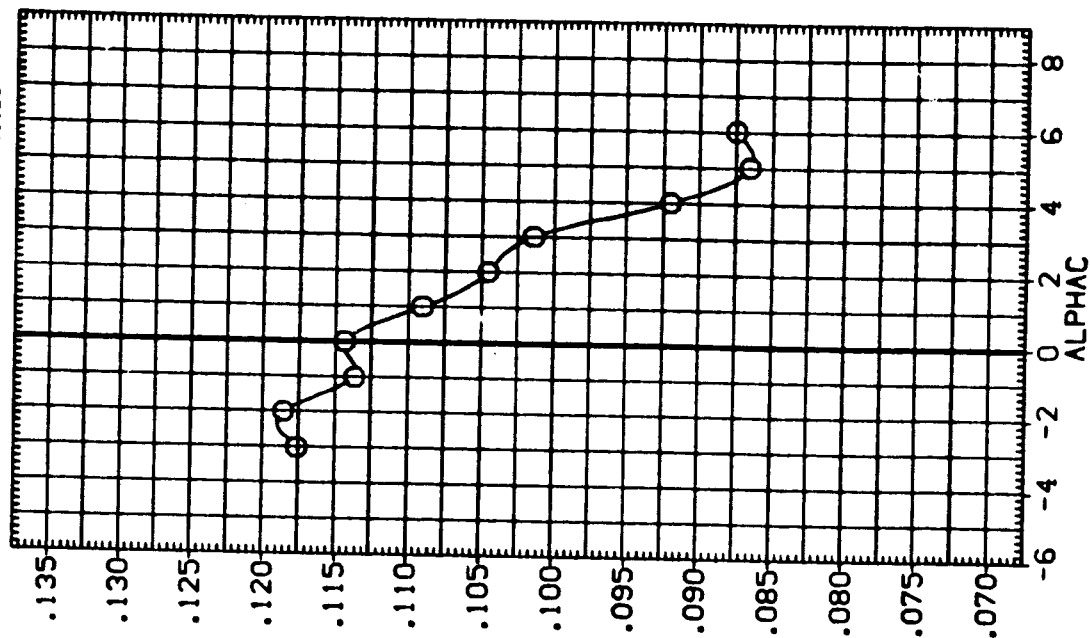
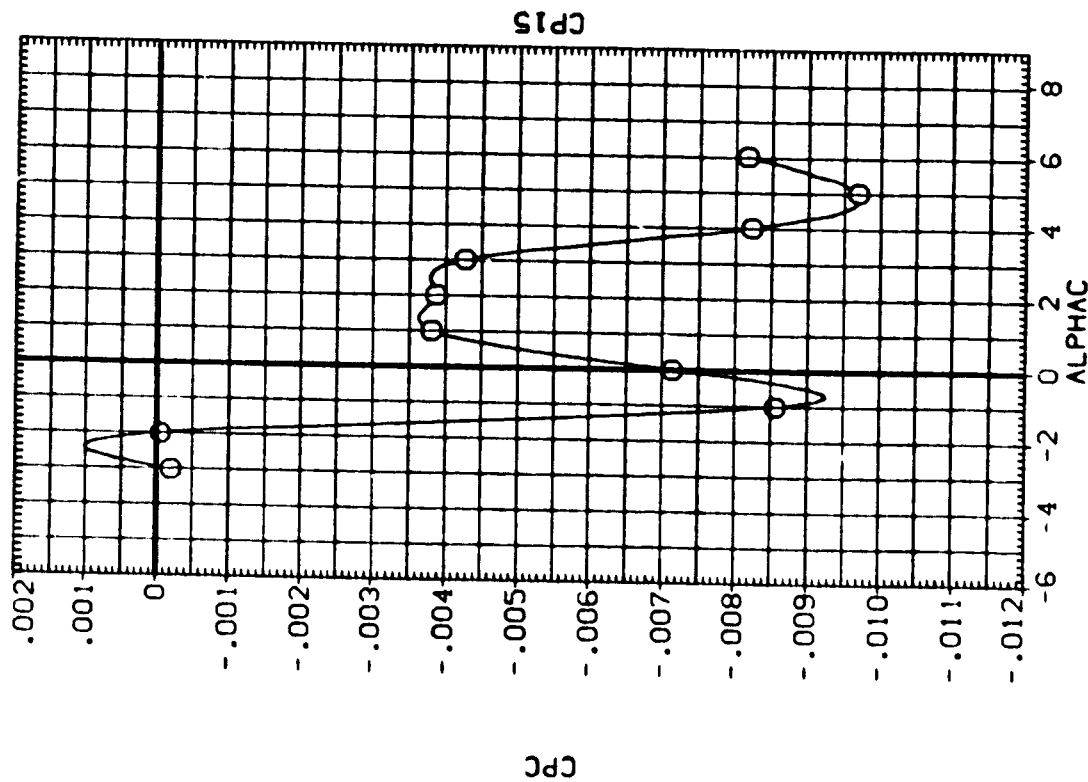


FIG.11 MATED (ORBITER + CARRIER) BASE AND CAVITY PRESSURES
(A)MACH = .60

DATA SET SM91
(CESG9) O

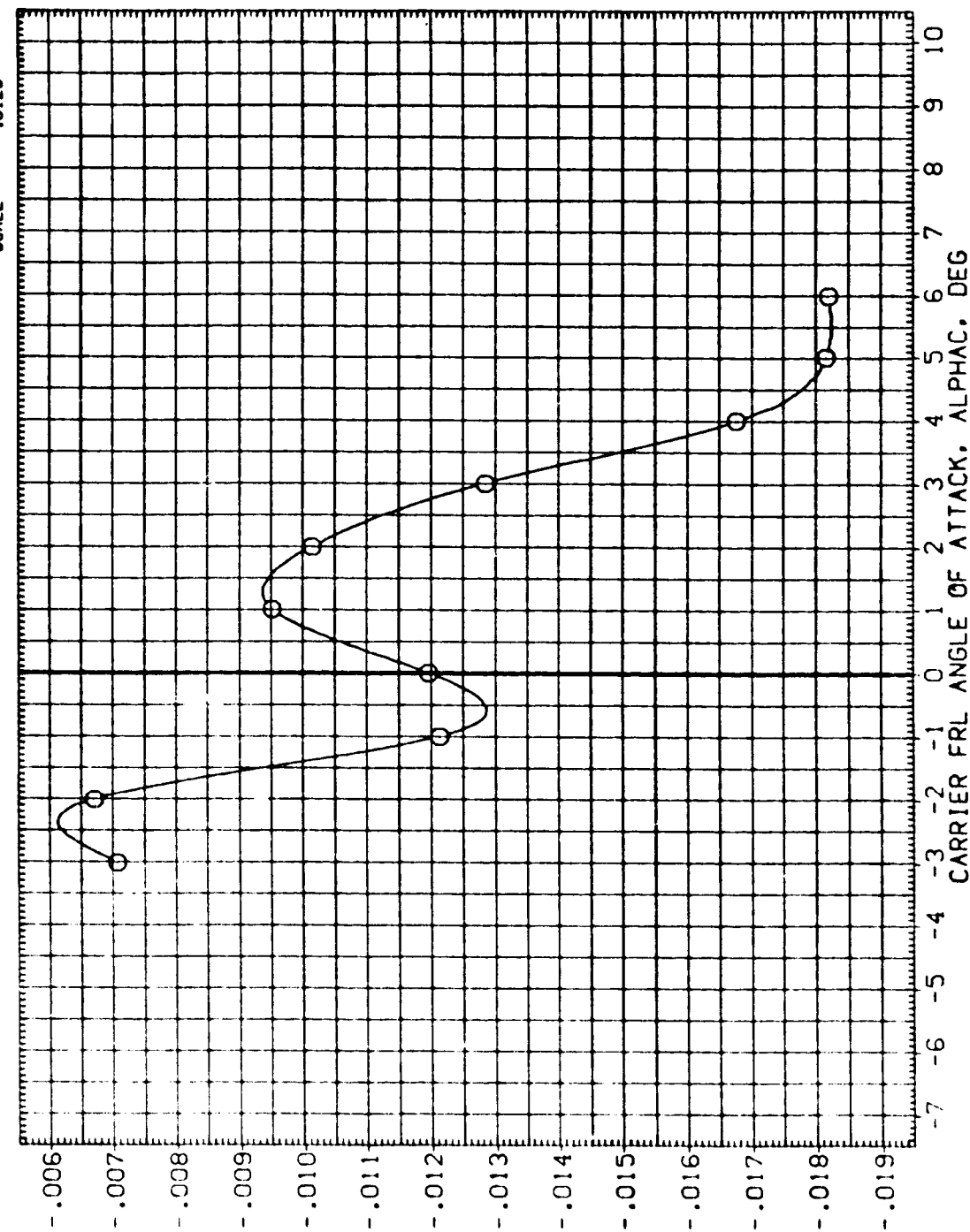


FIG. 11 MATED (ORBITER + CARRIER) BASE AND CAVITY PRESSURES

$$\{A\}MACH = .60$$

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(CE9069) ○ ARC14-080-1 CA23 747/1 01 AT3 (MATED)

BETAC STAB-C ELV-0 I-ORB
-5.000 5.000 6.000

REFERENCE INFORMATION
SREF 5500.0000 SQ. FT.
LREF 327.7800 IN.
BREF 2348.0400 IN.
XMRP 1339.9000 IN.
YMRP .0000 IN.
ZC 190.7500 IN.
SCALE .0125

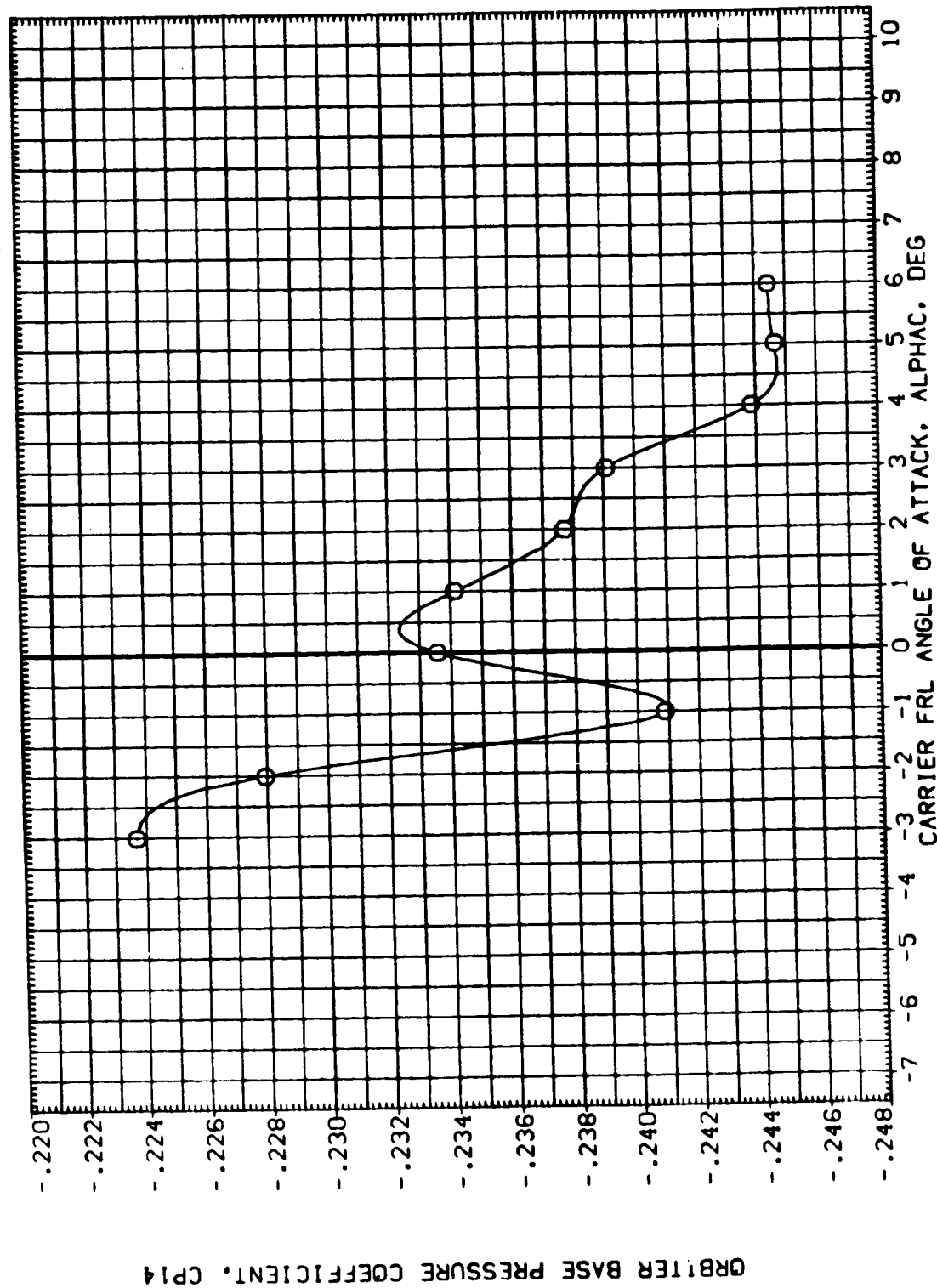


FIG.11 MATED (ORBITER + CARRIER) BASE AND CAVITY PRESSURES

(A) MACH = .60

DATA SET SYMBOL: (CE9069) \bigcirc CONFIGURATION DESCRIPTION: ARC14-080-1 CA23 747/1 01 AT3 (MATED)

BETAC STAB-C ELV-0 I-088
-5.000 5.000 5.000 6.000

REFERENCE INFORMATION
SREF 5500.0000 50. FT.
LREF 327.7800 IN.
BREF 2348.0400 IN.
XMRP 1339.9000 IN. XC
YMRP .0000 IN. YC
ZMRP .190.7500 IN. ZC
SCALE .0125

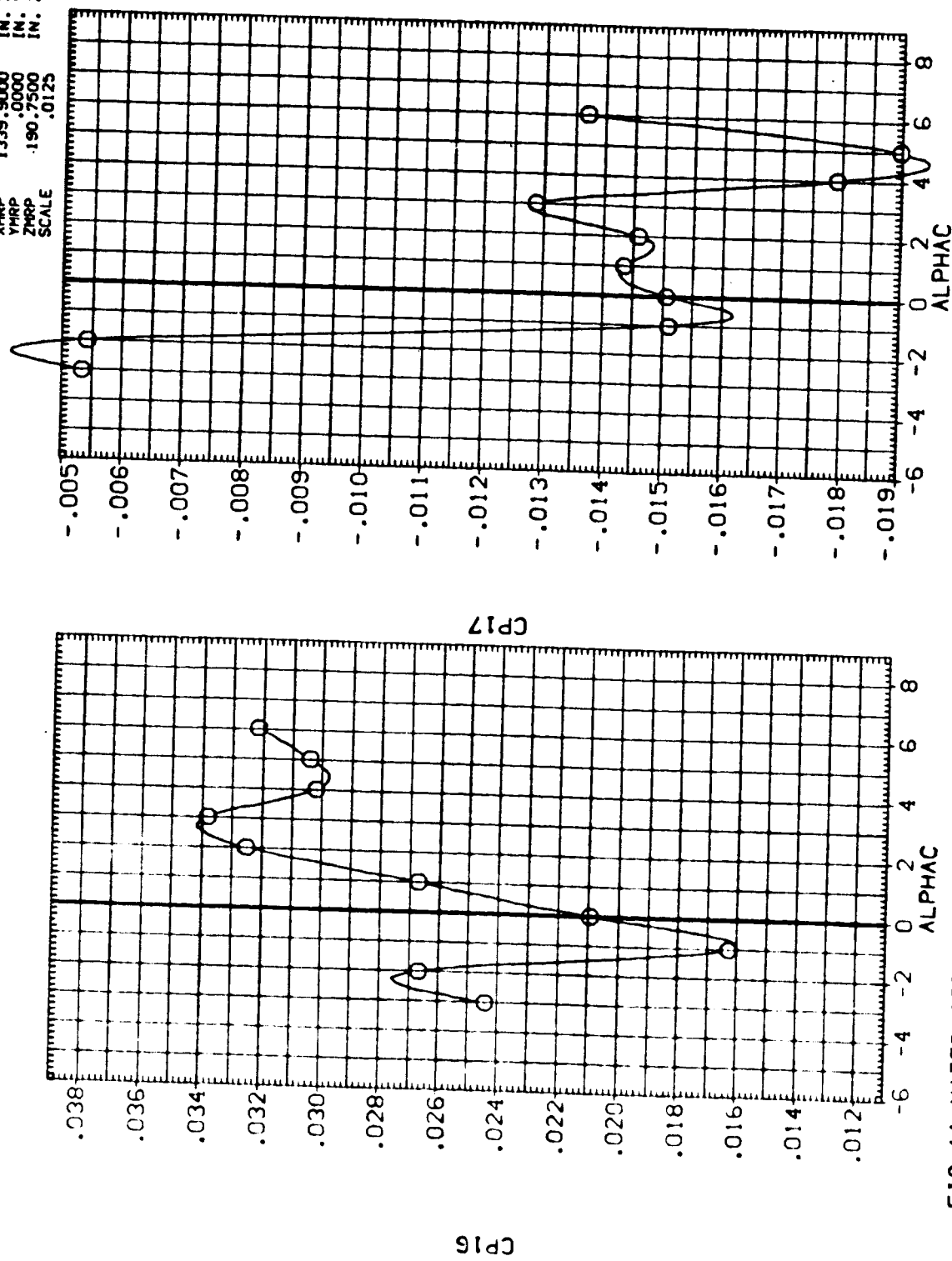


FIG.11 MATED (ORBITER + CARRIER) BASE AND CAVITY PRESSURES
(MACH = .60)

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(CES070) ○ ARC14-080-1 CA23 747/1 01 AT3 (MATED)

BETAC STAB-C ELV-0 1-088
.000 5.000 5.000 6.000

REFERENCE INFORMATION
SREF 5500.0000 50.FT.
LREF 327.7800 IN.
BREF 2348.0400 IN.
XMRP 1339.9000 IN. MC
YMRP .0000 IN. VC
ZMRP 190.7500 IN. ZC
SCALE .0125

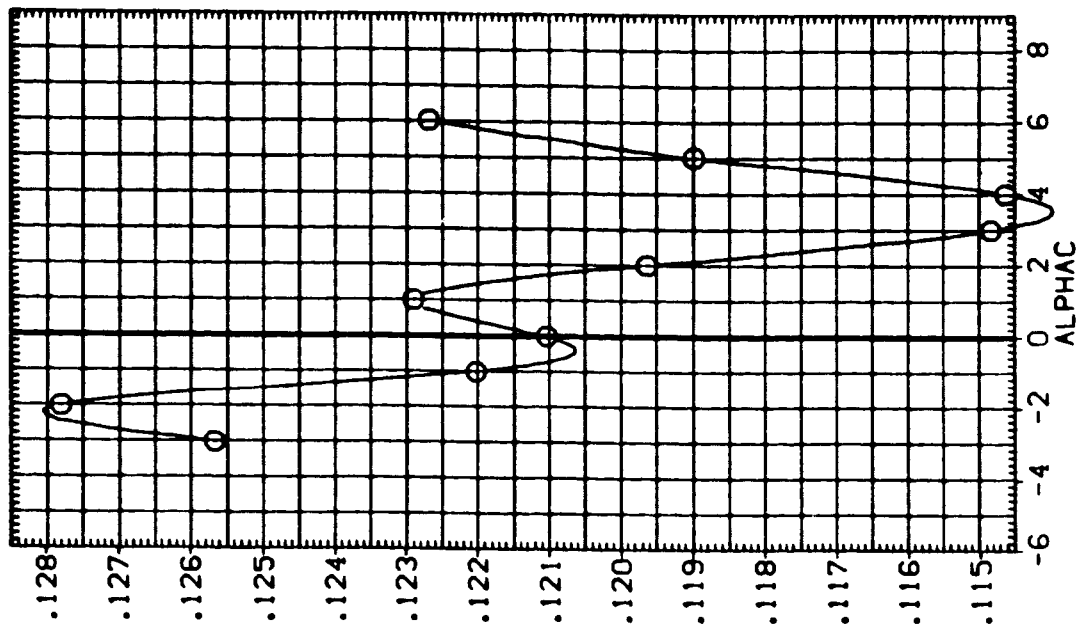
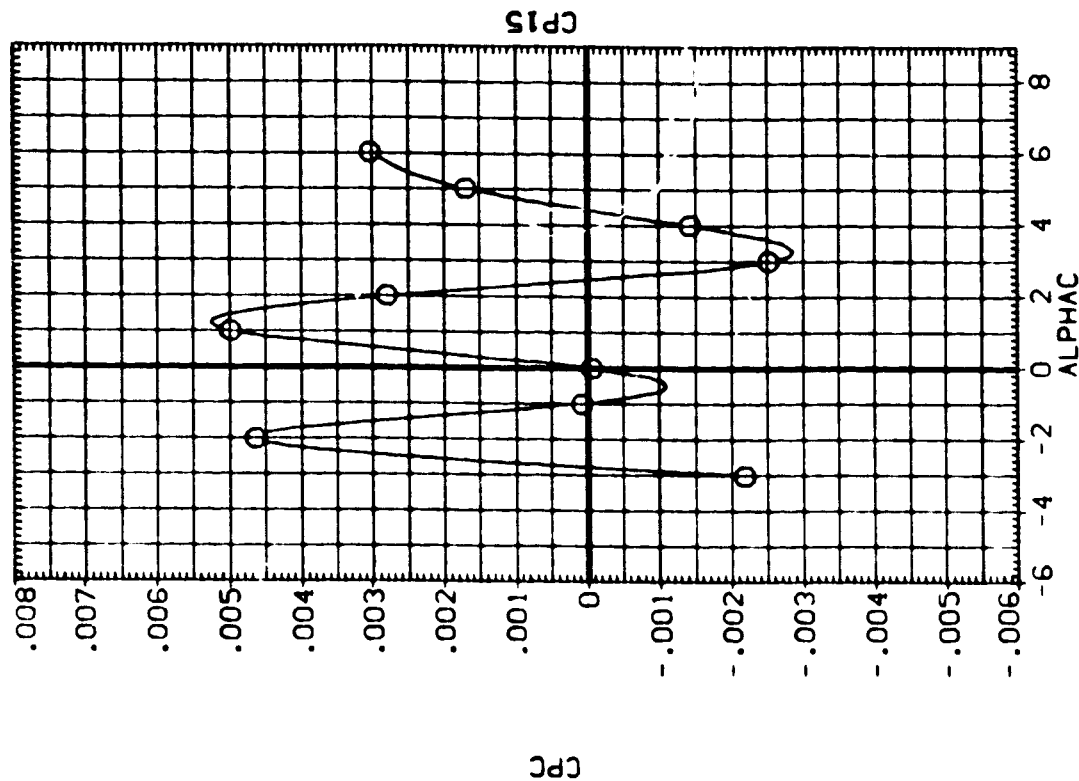


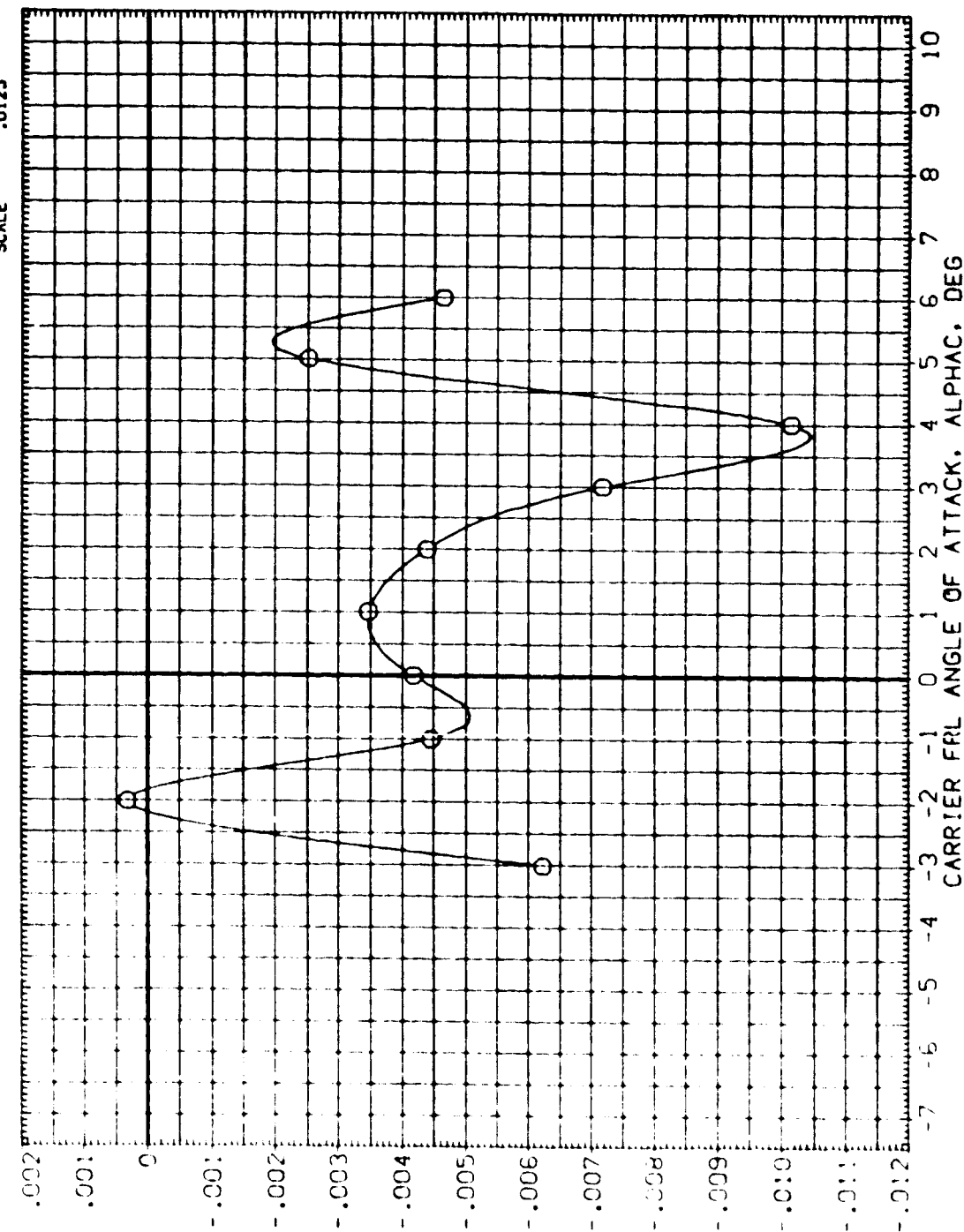
FIG.11 MATED (ORBITER + CARRIER) BASE AND CAVITY PRESSURES

(A) MACH = .60

DATA SET SYMBOL: 019270
 CONFIGURATION DESCRIPTION: A004-080-1 CA23 747/1 C1 AT3 (MATED)

BETAC: .000 STAB-C: 5.000 ELV-0: 1-008

REFERENCE INFORMATION:
 SREF: 5500.0000 90.FT.
 LREF: 327.7800 IN.
 BREF: 2348.0400 IN.
 XMRP: 1339.9000 IN. MC
 YMRP: .0000 IN. YC
 ZMRP: 190.7500 IN. ZC
 SCALE: .0125



747 LOWER AFT SLING CAVITY EXIT PRESSURE COEFFICIENT, CPB81

FIG.11 MATED (ORBITER + CARRIER) BASE AND CAVITY PRESSURES

(A)MACH = .60

DATA SET SYMBOL: (CE9070) \odot CONFIGURATION DESCRIPTION: ARC14-080-1 CA23 747/1 01 AT3 (MATED)

BETAC: .000 STAB-C: 5.000 ELV-0: 5.000 1-008: 6.000

REFERENCE INFORMATION:

	SREF	5500.0000	50. FT.
LREF	327.7800	IN.	
BREF	2348.0400	IN.	XC
XMRP	1339.9000	IN.	YC
YMRP	.0000	IN.	ZC
ZMRP	190.7500	IN.	ZC
SCALE	.0125		

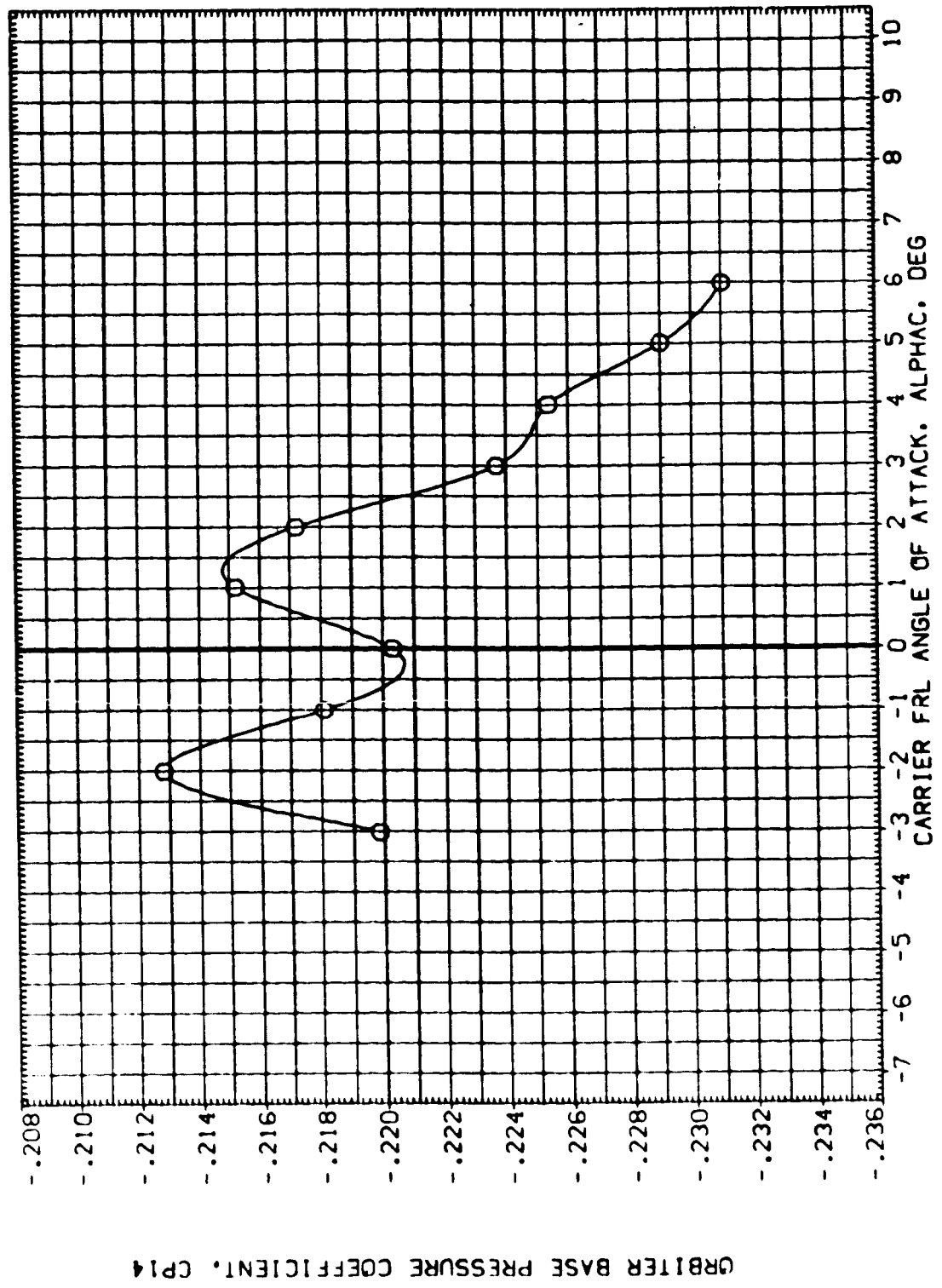


FIG. 11 MATED (ORBITER + CARRIER) BASE AND CAVITY PRESSURES

(A) MACH = .60



DATA SET SYMBOL (CE9070) \bigcirc CONFIGURATION DESCRIPTION ARC: 4-080-1 CA23 747/1 01 AT3 (MATED)

BETAC STAB-C ELV-B I-ORB .000 5.000 5.000 6.000

REFERENCE INFORMATION
 SREF 9500.0000 50.FT.
 LREF 327.7800 IN.
 BREF 2348.0400 IN.
 XMRP 1339.9000 IN.
 YMRP 190.7500 IN.
 ZMRP 190.7500 IN.
 SCALE .0125

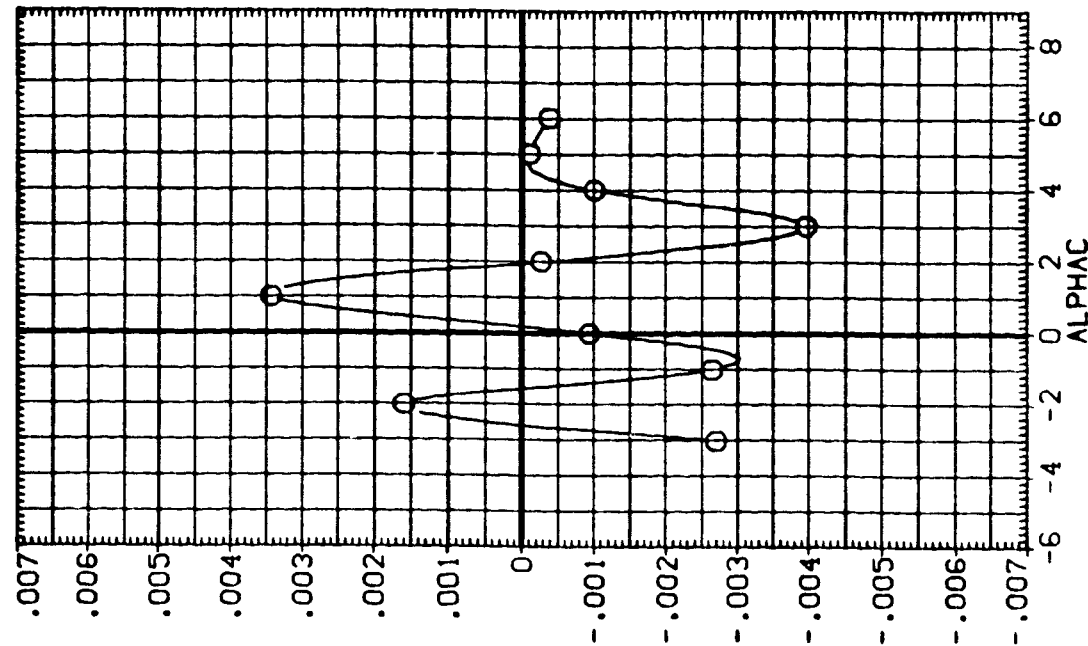
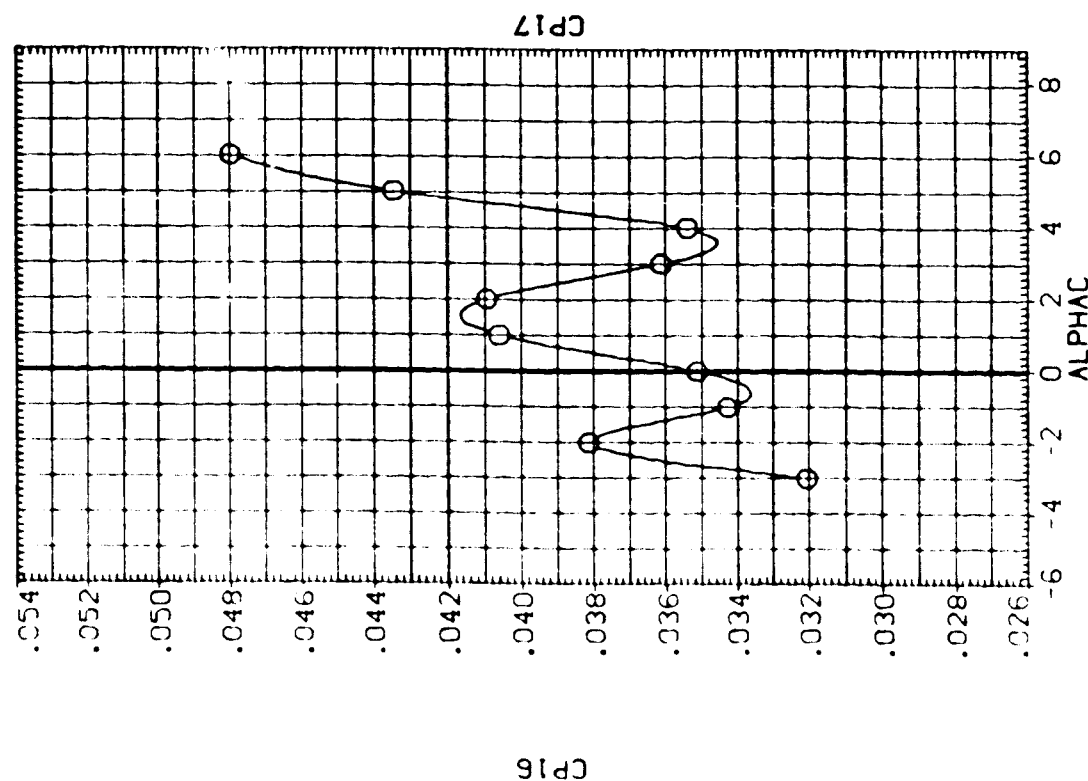


FIG.11 MATED (ORBITER + CARRIER) BASE AND CAVITY PRESSURES

(A)MACH = .60

DATA SET SYMBOL (CE9071) ○ CONFIGURATION DESCRIPTION ARC14-080-1 CA23 747/1 01 AT2 (MATED)

BETAC .000 STAB-C 5.000 ELV-0 5.000 1-008 6.000

REFERENCE INFORMATION
SREF 5500.0000 SO.FT.
LREF 327.7800 IN.
BREF 2348.0400 IN.
XMRP 1339.5000 IN. XC
YMRP .0000 IN. YC
ZMRP 190.7500 IN. ZC
SCALE .0125

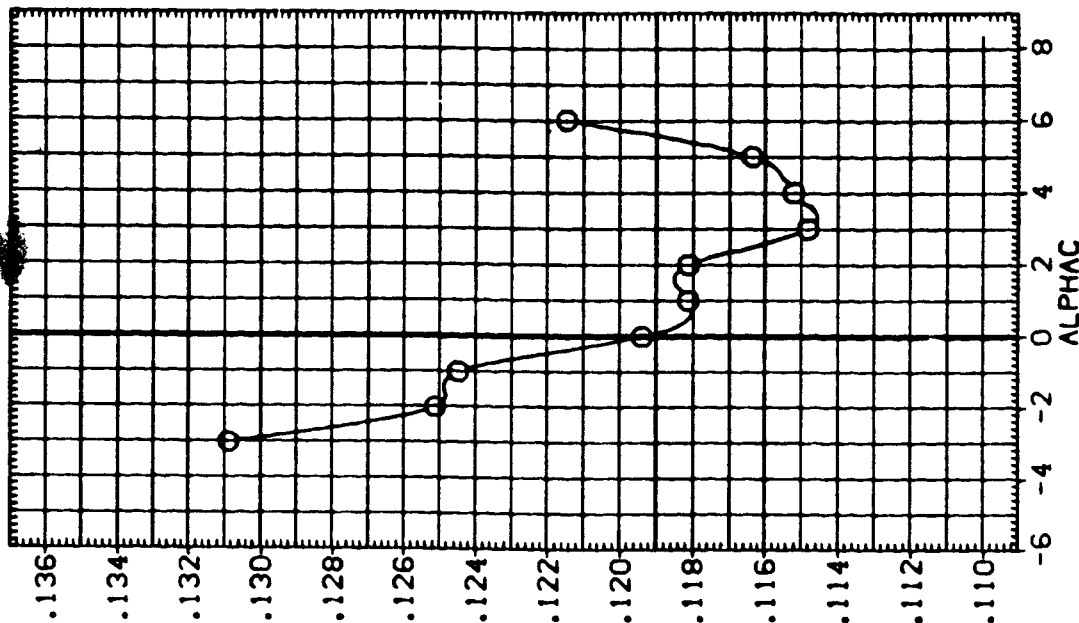
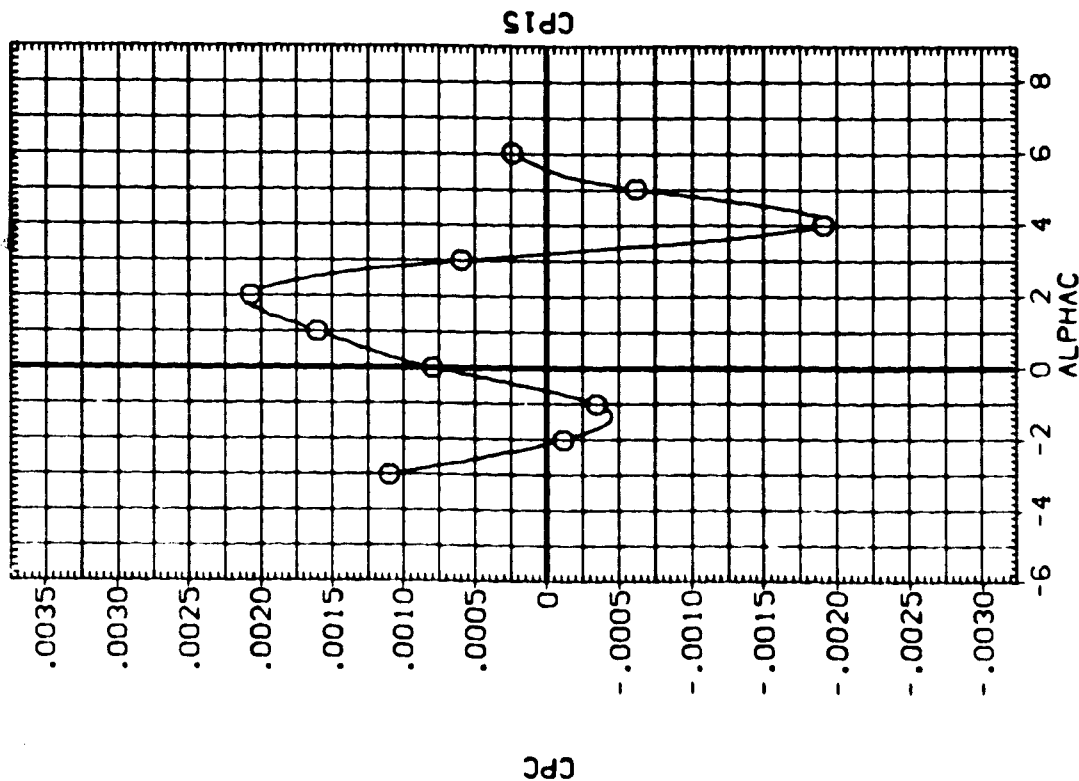


FIG.11 MATED (ORBITER + CARRIER) BASE AND CAVITY PRESSURES

(A) MACH = .60



DATA SET SYMBOL CONFIGURATION DESCRIPTION
(CE9071) ○ ARC:4-080-1 CA23 747/1 01 AT2 (MATED)

BETAC STAB-C ELV-0 1-ORB
.000 5.000 5.000 6.000

REFERENCE INFORMATION
SREF 5500.0000 SO.FT.
LREF 327.7800 IN.
BREF 2348.0400 IN.
XRRP 1339.9000 IN. XC
YRRP .0000 IN. YC
ZRRP 190.7500 IN. ZC
SCALE .0125

747 LOWER AFT STING CAVITY EXIT PRESSURE COEFFICIENT, CP5B1

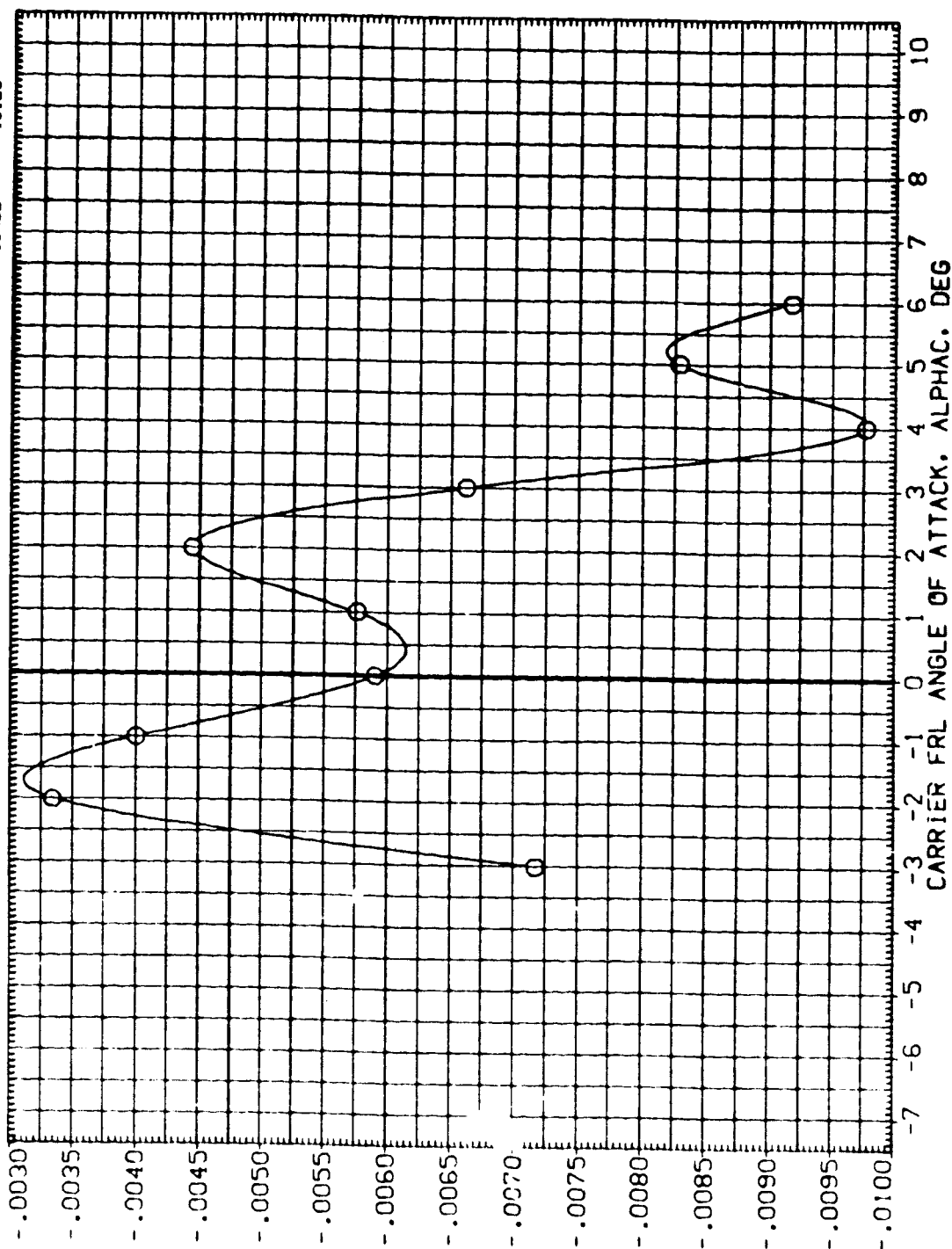


FIG.11 MATED (ORBITER + CARRIER) BASE AND CAVITY PRESSURES

(A)MACH = .60

DATA SET SYMBOL (CE9071) ☐ ARC14-080-1 CA23 747/1 01 AT2 (MATED)

BETAC .000 STAB-C 5.000 ELV-C 5.000 1-088 6.000

REFERENCE INFORMATION
 SREF 5500.0000 SO.FT.
 LREF 327.7800 IN.
 BREF 2348.0400 IN.
 XMBP 1339.9000 IN. MC
 YMBP .0000 IN. VC
 ZMBP 190.7500 IN. ZC
 SCALE .0125

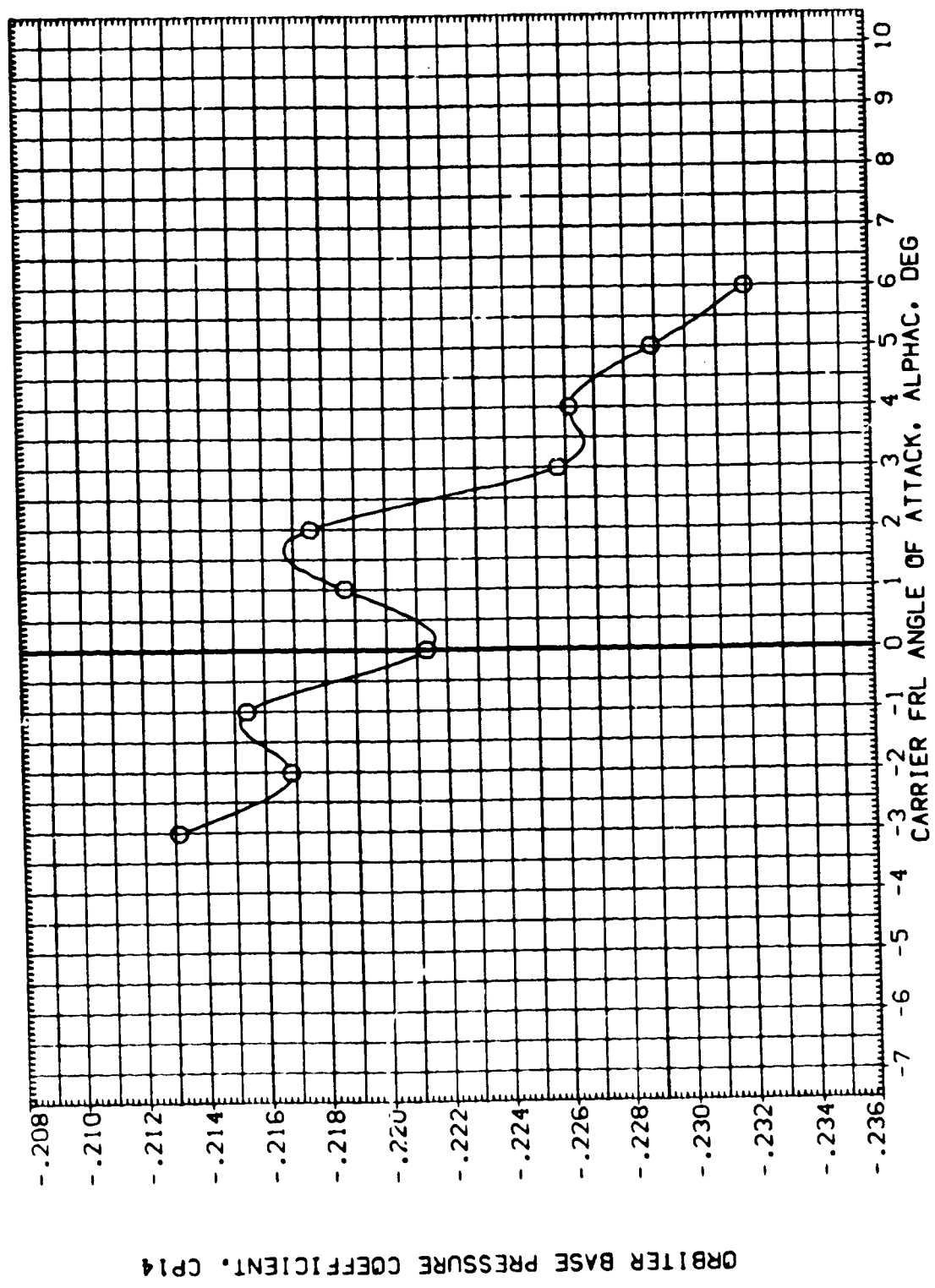


FIG.11 MATED (ORBITER + CARRIER) BASE AND CAVITY PRESSURES

(A)MACH = .60

DATA SET SYMBOL: (CE9071) ○ CONFIGURATION DESCRIPTION: ARC14-080-1 CA23 747/1 01 AT2 (MATED)

BETAC .000 STAB-C 5.000 ELV-0 5.000 I-ORR 6.000

REFERENCE INFORMATION
 SREF 3500.0000 50.FT.
 LREF 327.7800 IN.
 BREF 2348.0400 IN.
 XMRP 1338.9000 IN. XC
 YMRP 190.7500 IN. YC
 ZMRP 190.7500 IN. ZC
 SCALE .0125

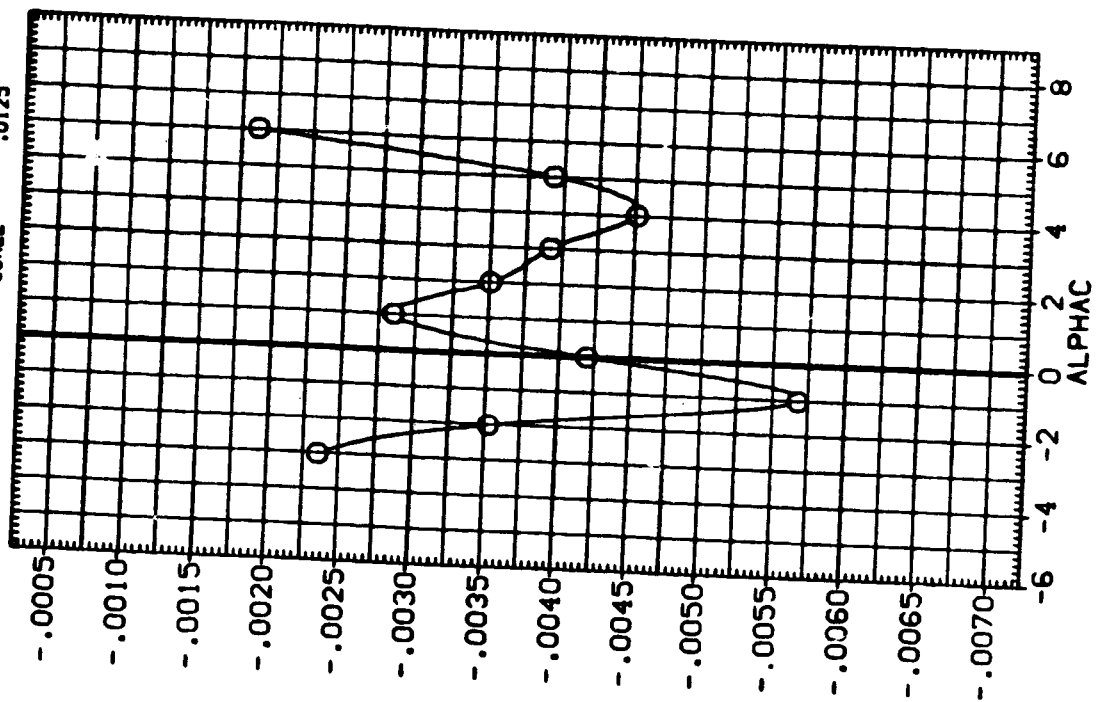
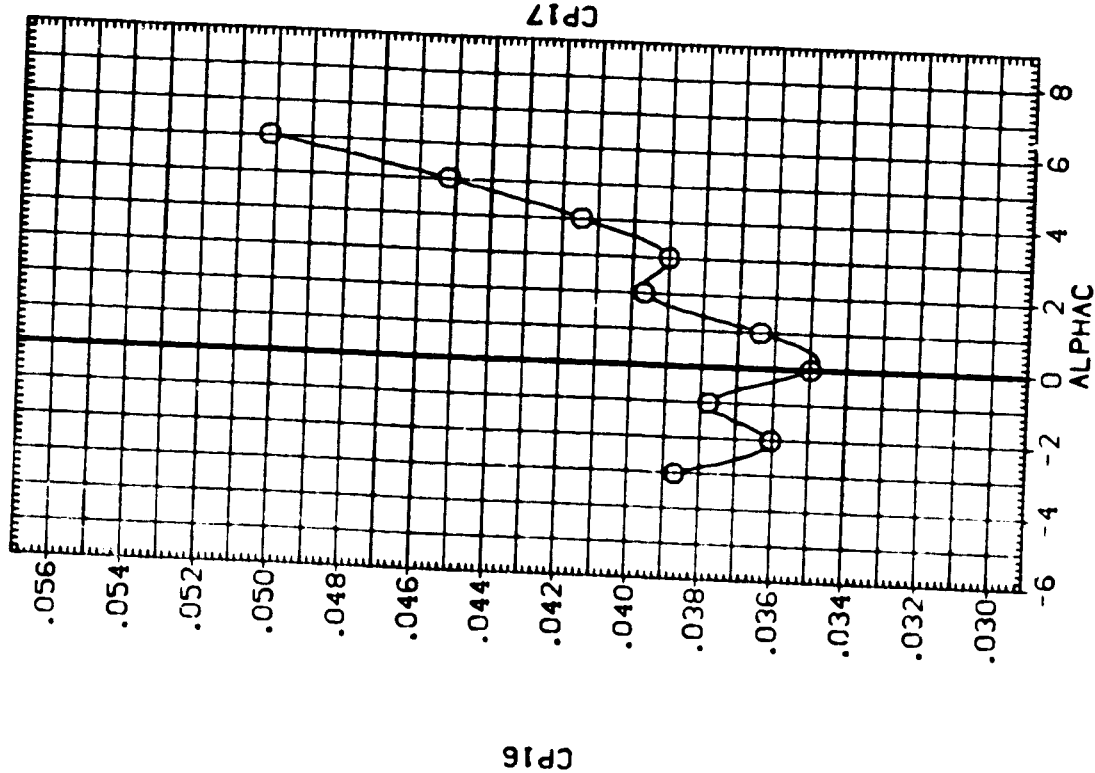


FIG.11 MATED (ORBITER + CARRIER) BASE AND CAVITY PRESSURES
 (A) MACH = .60

APPENDIX
TABULATED SOURCE DATA

Tabulations of plotted data are available
on request from Data Management Services.

(REGA01) (05 MAY 75)

TABULATED SOURCE DATA - CA23A
ARC14-080-1 CA23 045 (ORBITER ISOLATED)

DATE 13 NOV 75

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1109.0000 IN. XO
LREF = 474.8100 IN. YMRP = 0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

BETA0 = .000 ELV-O = 5.000
AIL-O = .000 RUD-O = .000

RUN NO. 1 / 0 RN/L = 3.46 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.600	.290	.00000	.05510	.05440	-.01630	.00050	.00000	-.00050	.05480	.05470	1.00300
.599	1.490	-.01000	.11060	.05280	-.01340	.00190	.00030	-.00070	.10920	.05560	1.96200
.602	1.720	-.01000	.11940	.05220	-.01190	.00100	.00030	-.00080	.11770	.05580	2.11000
.599	2.920	-.02000	.18740	.04860	-.00830	.00370	.00010	-.00040	.18470	.05810	3.18000
.604	4.170	-.02000	.25140	.04370	-.00350	.00450	.00010	-.00100	.24760	.06180	4.00500
.600	5.220	-.02000	.28840	.03980	-.00180	.00470	.00010	-.00030	.29360	.06590	4.30200
.600	6.570	-.00000	.36480	.03270	-.00300	.00000	.00050	-.00030	.35870	.07420	4.83100
.600	7.840	-.02000	.42580	.02470	.00600	.00440	.00010	-.00030	.41850	.08260	5.06500
.601	8.950	-.02000	.47170	.01760	.00860	.00350	.00030	.00040	.46320	.09080	5.10400
.602	9.970	-.02000	.54390	.01130	.01240	.00480	.00010	.00070	.53370	.10530	5.07100
.599	GRADIENT	-.00534	.05115	-.00282	.00332	.00111	.00002	-.00008	.05026	.00186	.78290

(REGA02) (05 MAY 75)

ARC14-080-1 CA23 045 (ORBITER ISOLATED)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1109.0000 IN. XO
LREF = 474.8100 IN. YMRP = 0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

BETA0 = .000 ELV-O = .000
AIL-O = .000 RUD-O = .000

RUN NO. 2 / 0 RN/L = 3.45 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.602	.110	.00000	-.05440	.05110	.01900	.00030	-.00010	-.00110	-.05430	.05120	-1.05900
.598	1.260	.00000	.01900	.04980	.02330	-.00070	.00000	-.00140	.01790	.05020	.35500
.602	2.410	.00000	.07520	.04720	.02620	.00000	-.00010	-.00130	.07320	.05030	1.45500
.601	3.720	.00000	.13850	.04310	.02960	.00040	.00000	-.00110	.13340	.05200	2.60200
.600	4.920	.00000	.19450	.03830	.03260	.00080	.00010	-.00110	.19050	.05490	3.47400
.601	6.230	.00000	.26680	.03140	.03670	.00070	.00000	-.00120	.26190	.06020	4.35300
.599	7.430	.00000	.32280	.02460	.03850	.00070	.00000	-.00110	.31690	.06610	4.79300
.603	8.640	-.01000	.37820	.01720	.04370	.00190	.00000	-.00100	.37140	.07380	5.02900
.600	10.020	-.01000	.45220	.00910	.04910	.00330	-.00020	-.00040	.44380	.10500	5.06100
.600	11.230	-.01000	.52230	.00330	.05060	.00360	.00000	-.00090	.51170	.10500	4.87400
.600	GRADIENT	.00000	.04933	-.00257	.00268	.00016	.00003	.00002	.04851	.00073	.90433

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ORIGINAL PAGE IS POOR

DATE 13 NOV 75

TABULATED SOURCE DATA - CA23A

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ARC14-080-1 CA23 OHS (ORBITER ISOLATED)

(RESA03) (05 MAY 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1109.0000 IN. XO
 LREF = 474.8100 IN. YMRP = .0000 IN. YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0125

PARAMETRIC DATA

BETAO = .000 ELV-O = 5.000
 AIL-O = .000 RUO-O = 10.000

RUN NO. 3/ 0 RN/L = 3.45 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.599	.340	-.05000	.05850	.05920	-.01170	.02460	-.01040	.00580	.05810	.05950	.97600
.600	1.510	-.05000	.11040	.05760	-.00840	.02470	-.01040	.00590	.10880	.06050	1.79900
.599	2.750	-.04000	.16740	.05430	-.00530	.02340	-.01030	.00610	.16460	.06230	2.64400
.599	4.020	-.04000	.23420	.04940	-.00080	.02380	-.01040	.00560	.23010	.06570	3.50300
.599	5.210	-.05000	.29300	.04430	-.00300	.02480	-.01040	.00580	.28780	.07080	4.06700
.598	6.430	-.05000	.35050	.03800	-.00530	.02490	-.01030	.00610	.34400	.07700	4.46800
.599	7.800	-.05000	.42220	.02940	-.00930	.02590	-.01040	.00620	.41430	.08640	4.79600
.601	9.000	-.04000	.47800	.02160	-.01260	.02450	-.01040	.00640	.46880	.09610	4.87700
.597	10.320	-.05000	.55200	.01470	-.01590	.02500	-.01040	.00630	.54040	.11330	4.77000
	GRADIENT	.00326	.04760	-.00267	.00292	-.00030	.00001	-.00003	.04660	.00167	.68604

ARC14-080-1 CA23 OHS (ORBITER ISOLATED)

(RESA04) (05 MAY 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1109.0000 IN. XO
 LREF = 474.8100 IN. YMRP = .0000 IN. YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0125

PARAMETRIC DATA

BETAO = .000 ELV-O = 5.000
 AIL-O = .000 RUO-O = .000

RUN NO. 4/ 0 RN/L = 3.43 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.598	.310	.00000	.05540	.05350	-.01680	.00070	-.00010	-.00080	.05510	.05380	1.02600
.598	1.540	.00000	.11360	.05200	-.01300	.00060	-.00020	-.00060	.11210	.05500	2.03900
.601	2.840	.00000	.17570	.04860	-.00870	.00070	-.00010	-.00110	.17310	.05730	3.02200
.599	3.930	.00000	.22500	.04530	-.00550	-.00110	-.00010	-.00050	.22140	.06060	3.65100
.598	5.240	.00000	.29470	.03900	-.00120	.00020	-.00010	-.00050	.28990	.06580	4.40500
.600	6.500	.00000	.35700	.03210	.00190	.00120	-.00010	-.00040	.35100	.07230	4.85600
.602	7.780	.00000	.41870	.02460	.00490	.00090	.00000	-.00010	.41150	.08100	5.07900
.599	8.980	-.01000	.48320	.01640	.00940	.00360	-.00030	.00000	.47470	.09160	5.18200
.598	10.320	-.01000	.56020	.00900	.01270	.00280	-.00030	-.00040	.54950	.10920	5.03300
	GRADIENT	.00000	.04697	-.00230	.00314	-.00042	.00001	-.00012	.04606	.00185	.73001

DATE 13 NOV 75

TAPULATED SOURCE DATA - CA23A

PAGE 3

ARC14-080-1 CA23 04S (ORBITER ISOLATED)

(RE9A05) (05 MAY 75)

REFERENCE DATA

SREF = 2690 0000 SO.FT. XMRP = 1109.0000 IN. XO
 LREF = 474.8100 IN. YMRP = .0000 IN. YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0125

PARAMETRIC DATA

BETA0 = .000 ELV-0 = 10.000
 AIL-0 = .000 RUD-0 = .000

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.598	.610	.00000	.15700	.06180	-.05360	-.00100	.00010	-.00080	.15640	.06340	2.46500
.602	1.800	.01000	.21880	.05860	-.05010	-.00150	.00010	-.00050	.21690	.06550	3.31200
.598	3.050	.00000	.27500	.05520	-.04690	-.00120	.00000	-.00090	.27170	.06980	3.89300
.602	4.340	.00000	.33520	.05030	-.04320	-.00020	.00000	-.00080	.33040	.07560	4.37300
.602	5.430	.00000	.39090	.04500	-.04120	-.00050	.00010	-.00020	.38490	.08180	4.70600
.599	6.830	.00000	.46720	.03730	-.03890	-.00070	.00000	-.00050	.45940	.09260	4.96000
.602	8.080	.00000	.53390	.02940	-.03640	-.00020	.00010	-.00020	.52440	.10410	5.03500
	GRADIENT	-.00084	.04747	-.00305	.00276	.00022	-.00003	-.00003	.04634	.00330	.50546

RUN NO. 5/ 0 RV/L = 3.41 GRADIENT INTERVAL = -5.00/ 5.00

ARC14-080-1 CA23 04S (ORBITER ISOLATED)

(RE9A06) (05 MAY 75)

REFERENCE DATA

SREF = 2690.0000 SO.FT. XMRP = 1109.0000 IN. XO
 LREF = 474.8100 IN. YMRP = .0000 IN. YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0125

PARAMETRIC DATA

BETA0 = .000 CLV-0 = 5.000
 AIL-0 = -10.000 RUD-0 = .000

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.600	.250	-.10000	.04440	.06620	-.01920	.03120	-.00500	-.03640	.04410	.06540	.66400
.605	1.500	-.10000	.11040	.06340	-.01410	.03200	-.00520	-.03620	.10870	.06620	1.64100
.602	2.710	-.10000	.16280	.06120	-.01100	.03140	-.00520	-.03630	.15970	.06880	2.32000
.601	4.070	-.10000	.23300	.05660	-.00680	.03190	-.00510	-.03730	.22840	.07300	3.13000
.601	5.230	-.11000	.28590	.05170	-.00530	.03300	-.00510	-.03790	.28000	.07750	3.61200
.602	6.490	-.10000	.35620	.04480	-.00330	.03130	-.00490	-.03820	.34880	.08470	4.11600
.599	7.780	-.11000	.43020	.03670	-.00150	.03380	-.00510	-.03890	.42130	.09460	4.45400
.598	9.010	-.12000	.49550	.02950	-.00100	.03820	-.00520	-.04080	.48480	.10680	4.54000
.599	10.290	-.11000	.56230	.02340	.00440	.03440	-.00490	-.04150	.54910	.12340	4.44800
	GRADIENT	.00000	.04881	-.00245	.00318	.00012	-.00002	-.00023	.04769	.00178	.63704

RUN NO. 6/ 0 RV/L = 3.43 GRADIENT INTERVAL = -5.00/ 5.00

DATE 13 NOV 75

TABULATED SOURCE DATA - CA23A

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ARC14-080-1 CA23 OWS (ORBITER ISOLATED)

(RESA07) (05 MAY 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1109.0000 IN. XO
 LRFP = 474.8100 IN. YMRP = .0000 IN. YO
 BRFP = 936.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0125

BETA0 = .000 ELV-O = .000
 ALL-O = .000 RUD-O = .000

PARAMETRIC DATA

RUN NO. 7/ 0 RN/L = 3.38 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CO	L/D
.599	.080	.00000	.04200	.05110	.02010	.00110	.00020	-.00130	-.04200	.05110	-.02300
.604	1.200	.00000	.00730	.04970	.02200	.00100	.00030	-.00150	.00620	.04980	.12500
.602	2.500	-.01000	.07470	.04720	.02590	.00280	.00030	-.00140	.07260	.05040	1.43800
.601	3.790	.00000	.13930	.04340	.02990	.00120	.00010	-.00120	.13610	.05250	2.59000
.603	4.950	.00000	.19280	.03860	.03220	.00110	.00010	-.00150	.18880	.05500	3.43000
.600	6.200	.00000	.25550	.03270	.03480	.00070	.00010	-.00140	.25050	.06010	4.17100
.599	7.470	-.01000	.32270	.02440	.03790	.00140	.00010	-.00110	.31680	.06610	4.78900
.602	8.670	-.01000	.38290	.01730	.04310	.00190	.00000	-.00100	.37590	.07480	5.02400
.600	9.970	-.01000	.44740	.00930	.04880	.00230	.00020	-.00080	.43900	.08660	5.06700
.600	11.250	-.01000	.52240	.00330	.05080	.00290	.00010	-.00050	.51180	.10510	4.86800
	GRADIENT	.00000	.04882	-.00254	.00261	.00002	.00003	-.00001	.04800	.00086	.09047

ARC14-080-1 CA23 OWS (ORBITER ISOLATED)

(RESA08) (05 MAY 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1109.0000 IN. XO
 LRFP = 474.8100 IN. YMRP = .0000 IN. YO
 BRFP = 936.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0125

BETA0 = -5.000 ELV-O = 5.000
 ALL-O = .000 RUD-O = .000

PARAMETRIC DATA

RUN NO. 8/ 0 RN/L = 3.39 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CO	L/D
.600	.080	-5.39000	.05180	.05190	-.02470	.10570	-.00630	.00570	.05170	.05200	.99400
.601	1.360	-5.39000	.11420	.05000	-.02000	.10670	-.00650	.00670	.11300	.05270	2.14300
.599	2.620	-5.39000	.17260	.04770	-.01690	.10740	-.00660	.00800	.17030	.05550	3.06800
.600	3.810	-5.39000	.23020	.04370	-.01290	.10600	-.00640	.00880	.22680	.05890	3.85300
.600	5.150	-5.36000	.30120	.03810	-.00800	.10380	-.00590	.00910	.29660	.06500	4.56500
.600	6.330	-5.35000	.36310	.03280	-.00320	.10280	-.00540	.00970	.35720	.07260	4.91900
.599	7.660	-5.33000	.42410	.02560	.00010	.10140	-.00500	.01170	.41690	.08190	5.09000
.599	8.920	-5.32000	.49360	.01750	.00260	.10500	-.00630	.01300	.48500	.09380	5.16900
.598	10.270	-5.30000	.57330	.01070	.00430	.10470	-.00650	.01400	.56220	.11280	4.98600
	GRADIENT	.00238	.04768	-.00215	.00309	.00014	-.00003	.00085	.04680	.00188	.76403

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TABULATED SOURCE DATA - CA23A

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ARC14-080-1 CA23 747/1 ATI (CARRIER ISOLATED)

(RE9809) (05 MAY 75)

REFERENCE DATA

SREF = 5500.0000 SQ.FT. XMRP = 1339.9000 IN. XC
 LREF = 327.7800 IN. YMRP = .0000 IN. YC
 BREF = 2348.0400 IN. ZMRP = 190.7500 IN. ZC
 SCALE = .0125

PARAMETRIC DATA

BETAC = -5.000 STAB-C = 5.000
 RUD-C = .000

RUN NO. 9/ 0 RN/L = 3.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAC	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.597	-1.580	-5.00000	-.09090	.04240	-.18250	.11080	-.02590	.01120	-.08970	.04490	-1.95600
.600	-.540	-5.00000	.01630	.04310	-.21680	.11300	-.02500	.01230	.01680	.04300	.39000
.602	.500	-4.93000	.10330	.04360	-.24560	.11020	-.02380	.01380	.10500	.04460	2.35500
.603	1.660	-4.98000	.22110	.04200	-.27010	.11000	-.02300	.01460	.21980	.04840	4.54500
.601	2.800	-4.98000	.31970	.03680	-.29410	.11180	-.02190	.01540	.31750	.05240	6.06100
.601	3.830	-4.97000	.41120	.03050	-.31000	.11010	-.02100	.01660	.40830	.05790	7.04700
.602	4.940	-4.96000	.51440	.02200	-.32410	.11150	-.02000	.01770	.51060	.06620	7.70800
.601	6.040	-4.95000	.61400	.01310	-.33230	.11050	-.01870	.01860	.60920	.07760	7.84900
.600	7.020	-4.93000	.68850	.00650	-.33970	.11040	-.01820	.01880	.68260	.09050	7.53900
	GRADIENT	.00621	.09216	-.00305	-.02154	-.00007	.00090	.00097	.09138	.00332	1.50657

ARC14-080-1 CA23 747/2 (CARRIER ISOLATED)

(RE9810) (05 MAY 75)

REFERENCE DATA

SREF = 5500.0000 SQ.FT. XMRP = 1339.9000 IN. XC
 LREF = 327.7800 IN. YMRP = .0000 IN. YC
 BREF = 2348.0400 IN. ZMRP = 190.7500 IN. ZC
 SCALE = .0125

PARAMETRIC DATA

BETAC = -5.000 STAB-C = 5.000
 RUD-C = .000

RUN NO. 10/ 0 RN/L = 3.48 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAC	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.597	-1.680	-4.98000	-.09130	.03710	-.20320	.10950	-.03070	.01120	-.09010	.03980	-2.26600
.597	-.580	-4.97000	.00720	.03860	-.23360	.10740	-.02970	.01220	.00760	.03860	.19600
.598	.540	-4.97000	.12030	.03860	-.26830	.10620	-.02840	.01390	.11990	.03970	3.01800
.600	1.660	-4.96000	.21700	.03730	-.27550	.10580	-.02760	.01470	.21580	.04350	4.95600
.601	2.700	-4.96000	.30980	.03310	-.27570	.10080	-.02520	.01560	.30780	.04770	6.45500
.598	3.790	-4.95000	.41380	.02620	-.30030	.10240	-.02470	.01760	.41120	.05350	7.69000
.597	4.840	-4.93000	.50000	.01850	-.32640	.10430	-.02470	.01800	.49670	.06070	8.18800
.601	5.940	-4.92000	.60340	.00950	-.33730	.10440	-.02380	.01890	.59920	.07190	8.33200
.600	7.050	-4.91000	.69490	.00140	-.34320	.10380	-.02250	.01940	.68950	.08670	7.95500
	GRADIENT	.00655	.09117	-.00281	-.01678	-.00102	.00102	.00108	.09048	.00329	1.63824

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TABULATED SOURCE DATA - CA23A

ARC14-080-1 CA23 747/3 (CARRIER ISOLATED)

(RES811) (05 MAY 75)

REFERENCE DATA

SREF = 5500.0000 SQ.FT. XMRP = 1339.9000 IN. XC
LREF = 327.7800 IN. YMRP = .0000 IN. YC
BREF = 2348.0400 IN. ZMRP = 190.7500 IN. ZC
SCALE = .0125

BETAC = -5.000 STAB-C = 1.000
RUD-C = .000

PARAMETRIC DATA

RUN NO. 11/ 0 RN/L = 3.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAC	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.599	-1.390	-5.00000	.02400	.02460	-.02440	.10120	-.02150	.01380	.02450	.02400	1.02100
.599	-.270	-5.00000	.14070	.02490	-.05600	.10210	-.02120	.01520	.14090	.02420	5.01200
.600	.820	-5.00000	.23850	.02310	-.07360	.10150	-.02040	.01650	.23820	.02650	9.00500
.600	1.880	-4.99000	.32640	.01840	-.08520	.10090	-.01940	.01670	.32560	.02910	11.16000
.600	2.950	-4.98000	.42750	.01090	-.09930	.09860	-.01790	.01900	.42630	.03300	12.94000
.599	4.100	-4.97000	.52970	.00180	-.12800	.09920	-.01740	.01960	.52820	.03970	13.31000
.600	5.070	-4.96000	.60200	-.00560	-.14130	.10020	-.01690	.02110	.60010	.04760	12.61000
.599	6.180	-4.95000	.69510	-.01510	-.15270	.10040	-.01600	.02110	.69270	.05980	11.58000
.599	7.260	-4.93000	.75800	-.01760	-.15050	.09960	-.01570	.02110	.75410	.07840	9.62500
.600	GRADIENT	.00576	.09110	-.00421	-.01731	-.00055	.00082	.00092	.09072	.00282	2.22590

ARC14-080-1 CA23 747/3 (-V9.1)(CARRIER ISOLATED)

(RES812) (05 MAY 75)

REFERENCE DATA

SREF = 5500.0000 SQ.FT. XMRP = 1339.9000 IN. XC
LREF = 327.7800 IN. YMRP = .0000 IN. YC
BREF = 2348.0400 IN. ZMRP = 190.7500 IN. ZC
SCALE = .0125

BETAC = -5.000 STAB-C = 1.000

PARAMETRIC DATA

RUN NO. 12/ 0 RN/L = 3.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAC	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.602	-1.350	-5.06000	.02460	.02550	.02750	.04810	.00420	.00740	.02520	.02490	1.01300
.599	-.240	-5.05000	.12530	.02550	-.00190	.05000	.00470	.00990	.12540	.02490	5.03300
.602	.780	-5.05000	.21640	.02360	-.02370	.04930	.00500	.01100	.21610	.02650	8.14600
.601	1.930	-5.04000	.32450	.01920	-.04250	.05020	.00560	.01100	.32360	.03010	10.75000
.601	2.940	-5.03000	.41480	.01290	-.05840	.05010	.00630	.01440	.41360	.03420	12.10000
.601	4.100	-5.02000	.50780	.00300	-.08220	.05030	.00660	.01560	.50630	.03930	12.87000
.599	5.190	-5.01000	.60020	-.00610	-.09950	.05120	.00680	.01560	.59830	.04820	12.40000
.600	6.250	-4.99000	.65330	-.01400	-.10800	.05180	.00730	.01700	.69070	.06150	11.23000
.600	7.320	-4.97000	.75930	-.01700	-.10830	.05240	.00690	.01480	.75530	.07990	9.45800
.600	GRADIENT	.00713	.08941	-.00409	-.01942	.00032	.00046	.00143	.08901	.00273	2.18706

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TABULATED SOURCE DATA - CA23A

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ARC14-080-1 CA23 747/3 (CARRIER ISOLATED)

(RE9813) (05 MAY 75)

REFERENCE DATA

SREF = 5500.0000 SQ.FT. XMRP = 1339.9000 IN. XC
 LREF = 327.7800 IN. YMRP = .0000 IN. YC
 BREF = 2348.0400 IN. ZMRP = 190.7500 IN. ZC
 SCALE = .0125

BETAC = .000 STAB-C = 1.000
 RUD-C = .000

PARAMETRIC DATA

RUN NO. 13/ 0 RN/L = 3.43 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAC	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CO	L/D
.603	-1.080	.0000	.01100	.02920	.00740	.00830	-.00220	.00000	.01200	.02880	.41600
.603	-.770	.00000	.10930	.02970	-.01340	.00940	-.00190	.00040	.10970	.02820	3.89200
.597	.290	.00000	.19760	.02810	-.03410	.00920	-.00190	.00190	.19740	.02910	6.78700
.599	1.490	.00000	.31030	.02330	-.06200	.00970	-.00200	.00200	.30960	.03130	9.87800
.601	2.540	.00000	.41350	.01680	-.08330	.01180	-.00200	.00140	.41240	.03520	11.73000
.599	3.590	.00000	.49690	.00910	-.09830	.01120	-.00190	.00110	.49530	.04020	12.32000
.600	4.680	.00000	.59040	-.00070	-.11360	.00900	-.00140	.00200	.58850	.04740	12.41000
.598	5.770	-.01000	.67360	-.01050	-.12240	.01090	-.00150	.00190	.67120	.05730	11.72000
.602	6.860	.00000	.76060	-.01520	-.12280	.01280	-.00200	.00110	.75700	.07560	10.01000
GRADIENT		.00000	.08906	-.00463	-.01901	.00027	.00007	.00023	.08862	.00279	1.39084

ARC14-080-1 CA23 747/3 (CARRIER ISOLATED)

(RE9814) (05 MAY 75)

REFERENCE DATA

SREF = 5500.0000 SQ.FT. XMRP = 1339.9000 IN. XC
 LREF = 327.7800 IN. YMRP = .0000 IN. YC
 BREF = 2348.0400 IN. ZMRP = 190.7500 IN. ZC
 SCALE = .0125

BETAC = .000 STAB-C = -1.000
 RUD-C = .000

PARAMETRIC DATA

RUN NO. 14/ 0 RN/L = 3.41 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAC	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CO	L/D
.604	-2.940	.00000	-.12280	.02590	.13690	.00630	-.00240	.00040	-.12130	.03220	-3.77300
.597	-1.940	.00000	-.03360	.02820	.11730	.00660	-.00160	.00050	-.03260	.02940	-1.11000
.600	-.730	.00000	.09350	.02980	.08530	.00810	-.00190	.00010	.09380	.02860	3.27700
.598	.350	.00000	.19060	.02850	.06430	.01090	-.00180	.00030	.19040	.02970	6.41600
.598	1.440	.00000	.28580	.02410	.04190	.00970	-.00200	.00110	.28510	.03120	9.12300
.596	2.530	.00000	.38370	.01650	.01840	.00910	-.00170	.00070	.38250	.03350	11.42000
.597	3.650	.00000	.48050	.00770	.00130	.00960	-.00190	.00180	.47900	.03830	12.56300
.605	4.770	.00000	.57050	-.00170	-.01260	.01030	-.00170	.00090	.56870	.04570	12.45000
.604	5.810	.00000	.65890	-.01000	-.01580	.00910	-.00130	.00010	.65660	.05680	11.55000
.601	6.920	.00000	.74150	-.01580	-.01490	.01090	-.00180	.00120	.73800	.07360	10.03000
GRADIENT		.00000	.09042	-.00367	-.01994	.00048	.00004	.00014	.08999	.00168	2.25064

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TABULATED SOURCE DATA - CA23A

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ARC14-080-1 CA23 747/3 (-H15) (CARRIER ISOLATED)

(RES815) (05 MAY 75)

REFERENCE DATA

SREF = 5500.0000 SQ.FT. XMRP = 1339.9000 IN. XC
 LREF = 327.7800 IN. YMRP = .0000 IN. YC
 BREF = 2348.0400 IN. ZMRP = 190.7500 IN. ZC
 SCALE = .0125

BETAC = .000 RUD-C = .000

PARAMETRIC DATA

RUN NO. 15/ 0 RN/L = 3.44 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAC	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.602	-2.970	.00000	-.07580	.02480	-.04760	.00870	-.00290	.00080	-.07440	.02870	-2.59200
.599	-1.860	.03000	.02180	.02690	-.03690	.00830	-.00230	.00090	.02270	.02620	.86500
.599	-.800	.00000	.10750	.02680	-.03020	.00870	-.00210	.00040	.10780	.02530	4.26500
.601	.250	.00000	.19610	.02570	-.01840	.01050	-.00230	.00100	.19600	.02650	7.39000
.603	1.450	.00000	.29650	.02120	-.00680	.01020	-.00230	.00130	.29590	.02870	10.30000
.602	2.520	.00000	.38320	.01400	.00010	.01030	-.00210	.00110	.38220	.03090	12.37000
.600	3.640	.00000	.47680	.00530	.01030	.01010	-.00210	.00100	.47550	.03550	13.38000
.601	4.730	.00000	.56820	-.00470	.02550	.00970	-.00130	.00120	.56660	.04220	13.43000
.600	5.820	.00000	.64090	-.01280	.04480	.00940	-.00150	.00240	.63890	.05230	12.22000
.600	6.890	.00000	.70670	-.01750	.06330	.00960	-.00200	.00180	.70370	.06740	10.44000
.600	GRADIENT	.00000	.08330	-.00387	.00919	.00022	.00009	.00006	.08291	.00173	2.17975

ARC14-080-1 CA23 747/2 (CARRIER ISOLATED)

(RES816) (05 MAY 75)

REFERENCE DATA

SREF = 5500.0000 SQ.FT. XMRP = 1339.9000 IN. XC
 LREF = 327.7800 IN. YMRP = .0000 IN. YC
 BREF = 2348.0400 IN. ZMRP = 190.7500 IN. ZC
 SCALE = .0125

BETAC = .000 STAB-C = 5.000
RUD-C = .000

PARAMETRIC DATA

RUN NO. 16/ 0 RN/L = 3.48 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAC	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.604	-3.280	.00000	-.22660	.03830	-.14790	.00510	-.00240	-.00050	-.22410	.05120	-4.37300
.606	-2.050	.00000	-.09480	.04190	-.19410	.00800	-.00260	.00010	-.09320	.04530	-2.05800
.605	-.810	.03000	.01260	.04380	-.22520	.00640	-.00150	.00050	.01320	.04360	.30300
.605	.120	.00000	.10160	.04420	-.24570	.00680	-.00200	.00030	.10150	.04440	2.28300
.604	1.300	.00000	.21010	.04280	-.26580	.00870	-.00250	.00070	.20910	.04760	4.39300
.604	2.250	.00000	.29550	.03850	-.28290	.00560	-.00160	.00050	.29380	.05020	5.85000
.604	3.370	.00000	.40100	.03280	-.29460	.00720	-.00220	.00080	.39840	.05630	7.07200
.603	4.510	.00000	.49310	.02420	-.30720	.00930	-.00240	.00130	.49270	.06320	7.80100
.604	5.500	.00000	.56860	.01570	-.31120	.00900	-.00220	.00110	.56450	.07010	8.04800
.604	6.600	.00000	.67100	.00590	-.31550	.00870	-.00170	.00150	.66590	.08290	8.03100
.604	GRADIENT	.00000	.09238	-.00172	-.01977	.00028	.00001	.00018	.09162	.00173	1.62814

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TABULATED SOURCE DATA - CA23A

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ARC14-080-1 CA23 747/1 AT1 (CARRIER ISOLATED)

(RE9817) (05 MAY 75)

REFERENCE DATA

SREF = 5500.0000 SQ.FT. XMRP = 1339.9000 IN. XC
 LREF = 327.7800 IN. YMRP = .0000 IN. YC
 BREF = 2348.0400 IN. ZMRP = 190.7500 IN. ZC
 SCALE = .0125

PARAMETRIC DATA

BETAC = .000 STAB-C = 5.000
 RUO-C = .000

RUN NO. 17/ 0 RN/L = 3.46 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAC	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CO	L/D
.595	-3.150	.00000	-.20600	.04350	-.14070	.00460	-.00190	.00090	-.20330	.05470	-3.71500
.594	-2.080	.00000	-.10360	.04570	-.17830	.00530	-.00140	.00040	-.10190	.04940	-2.06100
.593	-.990	.00000	.00030	.04810	-.21410	.00720	-.00150	.00060	.00120	.04810	.02400
.594	.150	.00000	.09480	.04850	-.23920	.00810	-.00140	.00040	.09460	.04870	1.94300
.589	1.180	.00000	.19050	.04790	-.25940	.00740	-.00120	.00000	.18950	.05180	3.65600
.589	2.260	.00000	.28770	.04350	-.28160	.00810	-.00160	.00110	.28570	.05480	5.21200
.588	3.360	.00000	.38360	.03850	-.29550	.00740	-.00110	.00090	.38070	.06090	6.24700
.588	4.480	.00000	.48470	.02920	-.31050	.00910	-.00150	.00100	.48090	.06700	7.17600
.598	5.550	.00000	.56940	.02050	-.31460	.00770	-.00130	.00160	.56480	.07350	7.47600
.598	6.670	.00000	.67300	.01060	-.31820	.00860	-.00130	.00200	.66720	.08870	7.52600
	GRADIENT	.00000	.09004	-.00165	-.02185	.00048	.00005	.00005	.08918	.00183	1.47735

ARC14-080-1 CA23 747/1 AT1 (CARRIER ISOLATED)

(RE9818) (05 MAY 75)

REFERENCE DATA

SREF = 5500.0000 SQ.FT. XMRP = 1339.9000 IN. XC
 LREF = 327.7800 IN. YMRP = .0000 IN. YC
 BREF = 2348.0400 IN. ZMRP = 190.7500 IN. ZC
 SCALE = .0125

PARAMETRIC DATA

BETAC = .000 STAB-C = 5.000
 RUO-C = 10.000

RUN NO. 18/ 0 RN/L = 3.41 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAC	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CO	L/D
.597	-3.190	.05000	-.21480	.04520	-.13940	.04220	-.02490	.00490	-.21190	.05710	-3.71100
.601	-1.030	.06000	-.01890	.04960	-.20940	.04440	-.02420	.00490	-.01800	.04990	-1.36000
.600	.090	.06000	.09220	.05070	-.24060	.04380	-.02420	.00430	.09220	.05090	1.81200
.600	1.180	.05000	.19060	.04950	-.26150	.04090	-.02320	.00520	.18950	.05340	3.55100
.600	2.210	.05000	.28120	.04560	-.28040	.04440	-.02320	.00470	.27920	.05640	4.95100
.597	3.310	.05000	.38410	.03990	-.29510	.04250	-.02220	.00550	.38110	.06200	6.14700
.600	4.430	.05000	.47940	.03110	-.30720	.04390	-.02210	.00510	.47550	.06850	6.93800
.600	5.630	.05000	.57850	.02100	-.31270	.04470	-.02210	.00530	.57360	.07760	7.39100
.599	6.600	.04000	.66240	.01120	-.31930	.04450	-.02180	.00520	.65670	.08720	7.52700
	GRADIENT	-.00172	.09103	-.00178	-.02167	.00007	.00037	.00006	.09013	.00168	1.43334

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TABULATED SOURCE DATA - CA23A

ARC14-080-1 CA23 747/1 AT1 (CARRIER ISOLATED)

(RE9819) (05 MAY 75)

PARAMETRIC DATA

REFERENCE DATA

SREF = 5500.0000 SQ.FT. XMRP = 1339.9000 IN. XC
 LREF = 327.7800 IN. YMRP = .0000 IN. YC
 BREF = 2348.0400 IN. ZMRP = 190.7500 IN. ZC
 SCALE = .0125

BETAC = .000
 RUD-C = -1.000

RUN NO. 19/ 0 RN/L = 3.44 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAC	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/O
.600	-2.010	.00000	-18780	.04290	.16780	.00340	-.00150	.00020	-.18820	.04950	-3.76100
.600	-.900	.00000	-.08960	.04520	.14050	.00690	-.00190	.00100	-.08890	.04660	-1.90800
.600	.150	.00000	.01420	.04620	.11210	.00730	-.00170	.00030	.01400	.04620	.30400
.598	1.230	.00000	.10220	.04360	.08850	.00890	-.00160	.00140	.10120	.04580	2.21100
.599	2.360	.00000	.20720	.03790	.05840	.01040	-.00170	.00090	.20550	.04640	4.42800
.599	3.560	.00000	.31370	.03120	.03520	.01140	-.00190	.00100	.31120	.05070	6.14300
.599	4.620	.00000	.41740	.02190	.01630	.01000	-.00170	.00120	.41430	.05540	7.47800
.600	5.680	.00000	.50470	.01100	-.00130	.01030	-.00150	.00210	.50110	.06090	8.23100
.600	6.700	.00000	.59660	.00270	-.01170	.01110	-.00170	.00180	.59220	.07230	8.19300
	GRADIENT	.00000	.09075	-.00322	-.02316	.00103	-.00002	.00012	.09004	.00085	1.73777

(RE9820) (05 MAY 75)

ARC14-080-1 CA23 747/1 AT1 (CARRIER ISOLATED)

PARAMETRIC DATA

REFERENCE DATA

SREF = 5500.0000 SQ.FT. XMRP = 1339.9000 IN. XC
 LREF = 327.7800 IN. YMRP = .0000 IN. YC
 BREF = 2348.0400 IN. ZMRP = 190.7500 IN. ZC
 SCALE = .0125

BETAC = .000
 RUD-C = 3.000

RUN NO. 20/ 0 RN/L = 3.45 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAC	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/O
.599	-3.140	.01000	-.23340	.04100	-.02920	.00380	-.00220	-.00020	-.23080	.05370	-4.29800
.600	-2.060	.00000	-.13480	.04330	-.06050	.00670	-.00220	-.00020	-.13310	.04810	-2.76600
.599	-.940	.00000	.02910	.04620	-.09290	.00870	-.00220	.00010	-.02830	.04670	-.60700
.601	1.100	.00000	.06430	.04560	-.12290	.00740	-.00160	.00140	.06420	.04570	1.40600
.600	1.260	.00000	.16250	.04390	-.14980	.00650	-.00120	.00090	.16150	.04750	3.40300
.593	2.250	.00000	.25910	.04020	-.17580	.00880	-.00160	.00080	.25730	.05040	5.10600
.599	3.440	.00000	.36740	.03240	-.20030	.00800	-.00160	.00160	.36480	.05430	6.71700
.600	4.470	.00000	.45660	.02490	-.21370	.00850	-.00150	.00160	.45330	.06040	7.50000
.600	5.630	.00000	.55380	.01430	-.22440	.01020	-.00140	.00090	.54970	.06850	8.02300
.601	6.670	.01000	.65020	.00470	-.22960	.01000	-.00120	.00120	.64530	.08010	8.05200
	GRADIENT	-.00076	.09075	-.00204	-.02477	.00042	.00011	.00021	.08997	.00099	1.62996

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TABULATED SOURCE DATA - CA23A

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(RE9821) (05 MAY 75)

REFERENCE DATA

SREF = 5500.0000 SQ.FT. XMRP = 1339.9000 IN. XC
 LREF = 327.7800 IN. YMRP = .0000 IN. YC
 BREF = 2348.0400 IN. ZMRP = 190.7500 IN. ZC
 SCALE = .0125

PARAMETRIC DATA

BETAC = .000 RUD-C = .000

RUN NO. 21/ 0 RN/L = 3.47 GRADIENT INTERVAL = -.000/ 5.00

MACH	ALPHAC	BETAC	CN	CA	CLM	CY	CYN	CBL	CL	CO	L/D
.601	-3.130	.01000	-.24210	.03800	-.00190	.00420	-.00220	-.00010	-.23970	.05120	-4.68000
.601	-1.990	.00300	-.14340	.04030	.00380	.00480	-.00180	-.00090	-.14190	.04530	-3.13600
.601	-.950	.00000	-.05940	.04170	.01410	.00710	-.00170	.00010	-.05870	.04270	-1.37500
.601	.170	.00000	.02510	.04190	.01970	.00590	-.00130	.00050	.02500	.04200	.59500
.601	1.320	.00000	.13060	.03580	.03330	.00770	-.00140	.00100	.12960	.04330	2.99700
.601	2.340	.00000	.21560	.02860	.04200	.00820	-.00150	.00100	.21390	.04460	4.79900
.601	3.500	.00000	.31020	.02070	.05410	.00840	-.00150	.00070	.30780	.04750	6.47900
.601	4.530	.00000	.38580	.02070	.06120	.01010	-.00150	.00120	.38300	.05110	7.49400
.601	5.630	.00000	.47720	.01100	.07770	.00750	-.00120	.00210	.47390	.05780	8.19400
GRADIENT		-.00076	.08247	-.00215	.00858	.00070	.00008	.00022	.08177	.00018	1.67514

ARC14-080-1 CA23 747/4 01 AT1 (ORB MATED)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1109.0000 IN. XO
 LREF = 474.8100 IN. YMRP = .0000 IN. YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0125

PARAMETRIC DATA

BETAC = .000 RUD-C = .000
 BETAC = .000 ELV-O = 5.000
 AIL-O = .000 RUD-O = .000
 I-ORB = 6.000

(RE9C22) (05 MAY 75)

RUN NO. 22/ 0 RN/L = 3.47 GRADIENT INTERVAL = -.5.00/ 5.00

MACH	ALPHAC	BETAC	CN	CA	CLM	CY	CYN	CBL	CL	CO	L/D
.601	3.430	-3.05000	.28410	.05130	.00100	-.00410	.00080	.00040	-.28050	.06820	4.11400
.597	4.570	-1.93000	.31250	.04700	.00310	-.00500	.00080	.00020	.30780	.07180	4.28900
.602	5.670	-.85000	.34410	.04240	.00510	-.00350	.00070	.00030	.33820	.07620	4.44000
.601	6.830	.29000	.37710	.03720	.00770	-.00460	.00090	.00030	.37000	.08180	4.52200
.601	7.950	1.39000	.40580	.03180	.01070	-.00700	.00090	.00010	.39750	.08760	4.53500
.601	9.110	2.53000	.44050	.02560	.01440	-.00480	.00080	.00050	.43090	.09500	4.53400
.601	10.230	3.63000	.47530	.02040	.01910	-.00530	.00080	.00010	.46410	.10440	4.44500
.600	11.350	4.73000	.50980	.01480	.02240	-.00410	.00070	.00060	.49700	.11480	4.32700
.600	12.450	5.82000	.54720	.01000	.02630	-.00530	.00060	.00060	.53220	.12780	4.16500
.599	13.570	6.91000	.58330	.00650	.03070	-.00650	.00070	.00020	.56550	.14320	3.95100
GRADIENT		.92123	.02491	-.00377	.00184	-.00079	-.00000	-.00018	.02395	.00316	.15351

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TABULATED SOURCE DATA - CA23A

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ARC14-080-1 CA23 747/1 01 AT1 (ORB MATED)

(RE9C23) (05 MAY 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1109.0000 IN. XO
 LREF = 474.8100 IN. YMRP = .0000 IN. YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0125

PARAMETRIC DATA

BETAC = .000 STAB-C = 5.000
 RUD-C = .000 BETAO = .000
 ELV-O = 5.000 AIL-O = .000
 RUD-O = .000 I-ORB = 6.000

RUN NO. 23/ 0 RN/L = 3.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ALPHAC	CN	CA	CLM	CY	CYN	CBL	CL	CO	L/O
.704	3.370	-3.16000	.29760	.05210	-.00110	-.00370	.00080	.00030	.29400	.06960	4.22700
.699	4.490	-2.06000	.32580	.04780	.00060	-.00280	.00090	.00050	.32100	.07320	4.38500
.700	5.690	-.89000	.36230	.04240	.00290	-.00450	.00100	.00040	.35630	.07810	4.56000
.698	6.820	.22000	.39690	.03760	.00520	-.00560	.00110	.00040	.38960	.08450	4.61200
.699	8.020	1.40000	.43070	.03270	.00850	-.00350	.00090	.00060	.42190	.09250	4.56000
.698	9.180	2.53000	.46730	.02810	.01250	-.00570	.00080	.00030	.45680	.10220	4.46800
.700	10.360	3.68000	.50770	.02550	.01440	-.00440	.00060	.00040	.49480	.11640	4.25100
.701	11.470	4.76000	.54990	.02560	.01680	-.00210	.00050	.00050	.52990	.13360	3.96600
.701	12.610	5.88000	.56940	.02510	.02070	-.00440	.00060	.00090	.55020	.14880	3.69800
.698	13.750	7.01000	.60240	.02440	.02660	-.00360	.00080	.00080	.57930	.16690	3.47000
GRADIENT		.98214	.02518	-.00384	.00152	.00080	.00009	.00018	.02411	.00321	.14107

ARC14-080-1 CA23 747/1 01 AT1 (ORB MATED)

(RE9C24) (05 MAY 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1109.0000 IN. XO
 LREF = 474.8100 IN. YMRP = .0000 IN. YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0125

PARAMETRIC DATA

BETAC = .000 STAB-C = 5.000
 RUD-C = .000 BETAO = .000
 ELV-O = 5.000 AIL-O = .000
 RUD-O = .000 I-ORB = 6.000

RUN NO. 24/ 0 RN/L = 3.32 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ALPHAC	CN	CA	CLM	CY	CYN	CBL	CL	CO	L/O
.585	3.380	-3.10000	.28210	.05050	.00020	-.00210	.00120	.00030	.27860	.06710	4.15600
.584	4.530	-1.96000	.31260	.04620	.00270	-.00290	.00120	.00030	.30800	.07070	4.35400
.585	5.600	-.90000	.34140	.04160	.00510	-.00410	.00120	.00020	.33570	.07480	4.49100
.595	6.740	.21000	.37330	.03630	.00780	-.00310	.00110	.00030	.36640	.07990	4.58800
.585	7.850	1.31000	.40490	.03140	.01050	-.00280	.00100	.00040	.39680	.08640	4.59300
.585	8.960	2.40000	.43570	.02570	.01420	-.00270	.00100	.00040	.42630	.09320	4.57200
.584	10.050	3.47000	.46760	.02010	.01810	-.00440	.00110	.00040	.45700	.10140	4.50600
.586	11.160	4.56000	.50440	.01510	.02260	-.00300	.00090	.00040	.49190	.11240	4.37400
.585	12.300	5.68000	.53920	.01010	.02630	-.00550	.00100	.00030	.52460	.12470	4.20700
.585	13.400	6.76000	.57600	.00560	.03060	-.00330	.00030	.00050	.55900	.13900	4.02200
GRADIENT		.99130	.02652	-.00374	.00217	-.00070	.00000	.00000	.02557	.00313	.17217

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ARC14-080-1 CA23 747/1 01 AT1 (ORB MATED)

(RE9C25) (05 MAY 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1109.0000 IN. XO
LREF = 474.8100 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0125

BETAC = .000 STAB-C = 5.000
RUD-C = .000 BETAO = .000
ELV-O = 5.000 AIL-O = .000
RUD-O = .000 I-ORB = 6.000

RUN NO. 25/ 0 RN/L = 3.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ALPHAC	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.501	3.350	-3.09000	.27440	.04950	.00210	-.00130	.00100	.00010	.27100	.06550	4.13900
.501	4.450	-2.01000	.30060	.04580	.00380	-.00160	.00090	.00020	.29610	.06850	4.29700
.501	5.540	-.92000	.33410	.04060	.00620	-.00270	.00100	.00000	.32860	.07260	4.52400
.501	6.590	.11000	.36450	.03650	.00880	-.00320	.00110	.00030	.35790	.07800	4.58600
.501	7.710	1.22000	.39270	.03140	.01170	-.00190	.00100	.00020	.38490	.08380	4.59500
.501	8.760	2.56000	.42120	.02660	.01490	-.00170	.00100	.00050	.41230	.09050	4.55600
.501	9.870	3.35000	.45590	.02090	.01930	-.00290	.00110	.00040	.44560	.09870	4.51300
.502	10.920	4.38000	.48230	.01640	.02290	-.00390	.00110	.00050	.47050	.10740	4.37900
.503	12.020	5.47000	.51890	.01100	.02790	-.00330	.00110	.00030	.50530	.11690	4.25100
.502	13.110	6.54000	.55630	.00610	.03290	-.00490	.00110	.00020	.54040	.13210	4.09200
	GRADIENT	.98182	.02382	-.00336	.00155	-.00027	-.00009	.00009	.02282	.00309	.14455

ARC14-080-1 CA23 747/1 01 AT1 (ORB MATED)

(RE9C26) (05 MAY 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1109.0000 IN. XO
LREF = 474.8100 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0125

BETAC = .000 STAB-C = 5.000
RUD-C = .000 BETAO = .000
ELV-O = 5.000 AIL-O = .000
RUD-O = .000 I-ORB = 6.000

RUN NO. 26/ 0 RN/L = .99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ALPHAC	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.301	3.350	-3.02000	.26790	.04870	.00420	-.00350	.00140	.00020	.26460	.06430	4.11700
.302	4.400	-1.98000	.28480	.04630	.00550	-.00170	.00140	.00050	.28040	.06900	4.12400
.303	5.420	-.96000	.31670	.04170	.00850	-.00040	.00130	.00010	.31140	.07140	4.35100
.303	6.470	.08000	.35000	.03670	.01090	-.00240	.00090	.00010	.34360	.07590	4.52700
.303	7.480	1.08000	.37290	.03320	.01360	-.00060	.00090	.00000	.36540	.08140	4.48900
.304	8.510	2.11000	.39710	.02900	.01600	-.00040	.00080	.00080	.38840	.08750	4.44100
.301	9.530	3.13000	.42530	.02470	.01903	-.00000	.00080	.00020	.41540	.09480	4.38200
.301	10.570	4.16000	.45860	.01930	.02300	-.00120	.00070	.00050	.44720	.10310	4.33700
.301	11.580	5.17000	.48650	.01520	.02790	-.00180	.00070	.00000	.47350	.11250	4.20800
.301	12.610	6.19000	.52290	.01050	.03280	-.00110	.00050	.00000	.50800	.12450	4.08100
	GRADIENT	.99048	.01610	-.00229	.00124	-.00171	.00000	.00029	.01505	.00352	.00667

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TABULATED SOURCE DATA - CA23A

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ARC14-080-1 CA23 747/1 01 AT1 (ORB MATED)

(RE9C27) (05 MAY 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1109.0000 IN. XO
 LREF = 474.8100 IN. YMRP = .0000 IN. YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0125

PARAMETRIC DATA

BETAC = .000 STAB-C = 5.000
 RUO-C = 10.000 BETAO = .000
 ELV-O = 5.000 AIL-O = .000
 RUO-O = .000 I-ORB = 6.000

RUN NO. 27/ 0 RN/L = 3.44 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ALPHAC	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.591	3.390	-3.0800	.27820	.05110	.00100	-.00240	.00080	.00020	.27470	.06740	4.07400
.590	4.510	-1.99000	.30630	.04690	.00320	-.00290	.00080	.00040	.30170	.07090	4.25600
.588	5.660	-.85000	.33840	.04210	.00520	-.00370	.00090	.00020	.33260	.07530	4.42000
.590	6.740	.21000	.37140	.03680	.00840	-.00070	.00070	.00040	.36450	.08020	4.54500
.588	7.840	1.30000	.40210	.03210	.01140	-.00520	.00100	.00010	.39390	.08670	4.54400
.589	8.970	2.41000	.43510	.02610	.01510	-.00230	.00080	.00030	.42580	.09360	4.54800
.588	10.060	3.48000	.46700	.02120	.01860	-.00430	.00090	.00020	.45610	.10250	4.45000
.588	11.170	4.57000	.50180	.01550	.02240	-.00510	.00100	.00000	.48930	.11240	4.35300
.587	12.270	5.65000	.53810	.01070	.02630	-.00340	.00060	.00040	.52350	.12490	4.19200
.588	13.410	6.77000	.57790	.00610	.03080	-.00600	.00070	-.00010	.56070	.13990	4.00700
	GRADIENT	.97321	.02509	-.00375	.00196	-.00045	.00000	.00018	.02411	.00312	.16429

ARC14-080-1 CA23 747/1 01 AT1 (ORB MATED)

(RE9C28) (05 MAY 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1109.0000 IN. XO
 LREF = 474.8100 IN. YMRP = .0000 IN. YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0125

PARAMETRIC DATA

BETAC = .000 STAB-C = 3.000
 RUO-C = .000 BETAO = .000
 ELV-O = 5.000 AIL-O = .000
 RUO-O = .000 I-ORB = 6.000

RUN NO. 28/ 0 RN/L = 3.46 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ALPHAC	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.593	3.420	-3.05000	.27700	.05040	.00100	-.00280	.00100	.00040	.27350	.06680	4.09200
.593	4.520	-1.97000	.30580	.04630	.00310	-.00370	.00110	.00040	.30120	.07020	4.28800
.591	5.650	-.86000	.34220	.04120	.00580	-.00380	.00100	.00060	.33650	.07470	4.50600
.591	6.740	.21000	.36600	.03670	.00740	-.00300	.00100	.00070	.35910	.07940	4.52500
.591	7.870	1.32000	.40540	.03050	.01120	-.00500	.00090	.00030	.39740	.08570	4.63800
.590	8.990	2.43000	.43550	.02550	.01460	-.00450	.00100	.00070	.42620	.09320	4.57200
.591	10.110	3.53000	.47060	.01960	.01900	-.00680	.00110	.00040	.45980	.10200	4.50900
.590	11.210	4.60000	.50570	.01470	.02300	-.00570	.00100	.00040	.49320	.11270	4.37700
.590	12.340	5.72000	.53990	.00960	.02620	-.00500	.00080	.00080	.52530	.12480	4.20900
.591	13.440	6.80000	.57150	.00580	.02990	-.00570	.00060	.00060	.55450	.13850	4.00400
	GRADIENT	.98182	.02618	-.00373	.00191	-.00082	.00009	.00000	.02518	.00309	.17818

DATE 13 NOV 75 TABULATED SOURCE DATA - CA23A
ARC14-080-1 CA23 747/1 01 AT1 (ORB MATED)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1109.0000 IN. XO
LREF = 474.8100 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0125

RUN NO. 29/ 0 RN/L = 3.39 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ALPHA-AC	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.591	4.600	-1.90000	.31330	.04390	.00420	-.00320	.00080	.00010	.30880	.06890	4.48200
.589	5.710	-.80000	.34470	.03990	.00670	-.00290	.00080	.00030	.33900	.07390	4.56500
.589	6.820	.29000	.37270	.03460	.00870	-.00260	.00090	.00070	.36600	.07860	4.65500
.589	7.950	1.40000	.40800	.02930	.01220	-.00450	.00110	.00050	.40000	.08540	4.68200
.589	9.030	2.52000	.43950	.02360	.01590	-.00500	.00100	.00060	.43020	.09270	4.64000
.591	10.220	3.64000	.46710	.01890	.01900	-.00520	.00090	.00030	.45630	.10150	4.49600
.591	11.270	4.66000	.49240	.01340	.02300	-.00410	.00090	.00070	.49010	.11130	4.40200
.589	12.390	5.76000	.54260	.00850	.02770	-.00590	.00050	.00050	.52810	.12470	4.23400
.589	13.500	6.85000	.57600	.00460	.03150	-.00400	.00060	.00070	.55900	.13890	4.02600
.589	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

(RE9C29) (05 MAY 75)

ARC14-080-1 CA23 747/1 01 AT1 (ORB MATED)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1109.0000 IN. XO
LREF = 474.8100 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0125

RUN NO. 30/ 0 RN/L = 3.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ALPHA-AC	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.601	3.580	-2.93000	.36310	.05410	-.03520	-.00510	.00130	.00020	.35910	.07670	4.68200
.598	4.670	-1.65000	.39350	.04970	-.03250	-.00410	.00120	.00050	.38810	.08150	4.76200
.597	5.790	-.75000	.42360	.04480	-.03110	-.00300	.00120	.00080	.41690	.08740	4.77300
.595	6.890	.33000	.45810	.03960	-.02900	-.00260	.00110	.00100	.45000	.09430	4.77200
.604	8.040	1.45000	.49420	.03480	-.02660	-.00580	.00130	.00070	.48450	.10350	4.67900
.603	9.190	2.58000	.52750	.02900	-.02330	-.00620	.00120	.00060	.51610	.11290	4.57300
.603	10.290	3.66000	.55900	.02390	-.01990	-.00560	.00100	.00060	.54580	.12330	4.25000
.597	11.400	4.76000	.59630	.01910	-.01600	-.00560	.00100	.00100	.58080	.13660	4.06900
.599	12.500	5.83000	.63870	.01460	-.01290	-.00510	.00100	.00040	.62040	.15250	3.84700
.600	GRADIENT	.00000	.00000	.00000	-.00960	-.00750	.00130	.00028	.64910	.16870	.07340
					.00248	.00092	-.00009		.02661	.00440	

(RE9C30) (05 MAY 75)

PARAMETRIC DATA

BETAC = .000
RUD-C = .000
ELV-O = 10.000
RUD-O = .000

STAB-C = -1.000
BETAO = .000
AIL-O = .000
I-ORB = 6.000

PARAMETRIC DATA

BETAC = .000
RUD-C = .000
ELV-O = 10.000
RUD-O = .000

STAB-C = -1.000
BETAO = .000
AIL-O = .000
I-ORB = 6.000

DATE 13 NOV 75

TABULATED SOURCE DATA - CA23A
ARC14-080-1 CA23 747/1 01 AT1 (ORB MATED)

(RE9C31) (05 MAY 75)

PARAMETRIC DATA

BETAC = .000 STAB-C = 5.000
RUD-C = .000 BETAO = .000
ELV-O = 10.000 AIL-O = .000
RUD-O = .000 I-ORB = 6.000

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1109.0000 IN. XO
LREF = 474.8100 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0125

RUN NO. 31/ 0 RN/L = 3.44 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ALPHAC	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.604	3.440	-3.07000	.36240	.05610	-.03650	-.00440	.00120	.00040	.35840	.07780	4.60900
.601	4.590	-1.95000	.39450	.05190	-.03400	-.00450	.00110	.00050	.38910	.08330	4.67200
.601	5.660	-.80000	.42400	.04720	-.03210	-.00610	.00120	.00030	.41730	.08880	4.69800
.601	6.820	.25000	.46030	.04220	-.03060	-.00630	.00130	.00050	.45200	.09650	4.68300
.601	7.970	1.38000	.49630	.03640	-.02800	-.00740	.00130	.00050	.48700	.10490	4.64100
.601	9.100	2.49000	.52660	.03100	-.02470	-.00570	.00120	.00110	.51510	.11390	4.52200
.599	10.210	3.58000	.56640	.02530	-.02020	-.00740	.00120	.00050	.55300	.12530	4.41500
.599	11.320	4.68000	.59830	.02090	-.01800	-.00510	.00080	.00100	.58320	.13810	4.22300
.600	12.390	5.72000	.63620	.01670	-.01410	-.00650	.00080	.00110	.61790	.15280	4.04200
.600	13.550	6.85000	.67320	.01290	-.01020	-.00660	.00100	.00080	.65150	.17030	3.82600
GRADIENT		.97391	.02791	-.00365	.00217	-.00009	-.00009	.00009	.02670	.00478	.05478

ARC14-080-1 CA23 747/1 01 AT1 (ORB MATED)

(RE9C32) (05 MAY 75)

PARAMETRIC DATA

BETAC = .000 STAB-C = 5.000
RUD-C = .000 BETAO = .000
ELV-O = .000 AIL-O = .000
RUD-O = .000 I-ORB = 6.000

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1109.0000 IN. XO
LREF = 474.8100 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0125

RUN NO. 32/ 0 RN/L = 3.46 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ALPHAC	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.601	3.280	-3.17000	.19900	.04960	.03580	-.00200	.00040	-.00100	.19580	.06100	3.21200
.601	4.380	-2.09000	.22820	.04540	.03790	-.00330	.00040	-.00120	.22400	.06270	3.57400
.601	5.550	-.93000	.26410	.04020	.04020	-.00260	.00040	-.00120	.25900	.06560	3.94800
.597	6.660	.16000	.29220	.03560	.04230	-.00480	.00050	-.00120	.28610	.06920	4.13500
.598	7.770	1.25000	.32010	.03050	.04510	-.00230	.00050	-.00090	.31300	.07350	4.25900
.599	8.860	2.32000	.35440	.02480	.05090	-.00150	.00030	-.00080	.34640	.07910	4.37600
.600	10.000	3.43000	.38930	.01910	.05660	-.00520	.00050	-.00090	.38010	.08640	4.40000
.599	11.090	4.51000	.41870	.01400	.06100	-.00370	.00040	-.00100	.40810	.09430	4.32900
.599	12.250	5.65000	.45310	.00890	.06560	-.00450	.00030	-.00100	.44090	.10480	4.20800
.600	13.340	6.72000	.49190	.00480	.06960	-.00390	.00010	-.00100	.47750	.11810	4.04200
GRADIENT		.98182	.02655	-.00382	.00191	-.00118	.00000	-.00018	.02564	.00155	.32909

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TABULATED SOURCE DATA - CA23A

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ARC14-080-1 CA23 747/1 05 AT1 (ORB MATED)

(RESC33) (05 MAY 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1109.0000 IN. XO
 LREF = 474.8100 IN. YMRP = .0000 IN. YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0125

PARAMETRIC DATA

BETAC = .000 STAB-C = 5.000
 RUO-C = .000 BETAO = .000
 ELV-O = .000 AIL-O = .000
 RUO-O = .000 I-ORB = 6.000

RUN NO. 33/ 0 RN/L = 3.43 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ALPHAC	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.600	3.290	-3.15000	.17360	.04790	.04930	-.00020	.00040	-.00080	.17050	.05780	2.95100
.598	4.400	-2.05000	.20230	.04380	.05200	-.00130	.00060	-.00070	.19830	.05920	3.35100
.596	5.540	-.93000	.23330	.03920	.05510	-.00320	.00050	-.00120	.22840	.06160	3.70900
.602	6.640	1.14000	.26640	.03390	.05810	-.00190	.00050	-.00090	.26070	.06450	4.04400
.600	7.740	1.23000	.29360	.02890	.06100	-.00270	.00050	-.00100	.28700	.06820	4.20700
.601	8.780	2.25000	.32270	.02420	.06390	-.00410	.00060	-.00090	.31520	.07320	4.30900
.601	10.000	3.45000	.35940	.01840	.06810	-.00310	.00040	-.00070	.35070	.08050	4.35600
.601	11.110	4.54000	.39550	.01300	.07270	-.00300	.00030	-.00100	.38560	.08890	4.33600
.600	12.190	5.60000	.42810	.00890	.07700	-.00380	.00040	-.00090	.41650	.09900	4.20500
.600	13.300	6.68000	.46490	.00420	.08080	-.00270	.00000	-.00060	.45150	.11100	4.06800
.600	GRADIENT	.99099	.02586	-.00369	.00243	-.00099	.00018	.00009	.02505	.00126	.36036

ARC14-080-1 CA23 747/1 01 AT1 (ORB MATED)

(RESC34) (05 MAY 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1109.0000 IN. XO
 LREF = 474.8100 IN. YMRP = .0000 IN. YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0125

PARAMETRIC DATA

BETAC = .000 STAB-C = -1.000
 RUO-C = .000 BETAO = .000
 ELV-O = .000 AIL-O = .000
 RUO-O = .000 I-ORB = 6.000

RUN NO. 34/ 0 RN/L = 3.44 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ALPHAC	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.602	3.370	-3.08000	.20080	.04760	.03650	-.00040	.00030	-.00090	.19770	.05930	3.33400
.598	4.470	-2.00000	.22690	.04380	.03840	-.00260	.00030	-.00090	.22280	.06130	3.63300
.602	6.740	1.24000	.29360	.03340	.04300	-.00410	.00040	-.00100	.26760	.06770	4.25000
.601	7.850	1.33000	.33010	.02780	.04760	-.00290	.00030	-.00110	.32320	.07270	4.44700
.600	8.990	2.45000	.35810	.02230	.05270	-.00120	.00040	-.00040	.35020	.07800	4.49000
.601	10.110	3.55000	.38970	.01660	.05790	-.00290	.00030	-.00070	.38070	.08470	4.49300
.601	11.220	4.64000	.42010	.01180	.06250	-.00320	.00020	-.00090	.40980	.09340	4.38800
.600	12.330	5.73000	.45450	.00730	.06650	-.00180	.00010	-.00060	.44250	.10420	4.24800
.601	13.430	6.81000	.48530	.00330	.06940	-.00310	-.00010	-.00070	.47120	.11600	4.06300
.601	GRADIENT	.98182	.02373	-.00345	.00173	-.00200	.00000	.00000	.02282	.00182	.27182

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TABULATED SOURCE DATA - CA23A

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ARC14-080-1 CA23 747/1 01 AT1 (ORB MATED)

(RE9C35) (05 MAY 75)

REFERENCE DATA

SREF = 2590.0000 SQ.FT. XMRP = 1109.0000 IN. XO
 LREF = 474.8100 IN. YMRP = .0000 IN. YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0125

PARAMETRIC DATA

BETAC = .000 STAB-C = 5.000
 RUD-C = .000 BETAO = .000
 ELV-O = 5.000 AIL-O = -10.000
 RUD-O = .000 I-ORB = 6.000

RUN NO. 35/ 0 RN/L = 3.46 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ALPHAC	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.601	3.330	-3.14000	.26000	.06060	.00320	.01700	-.00320	-.03510	.25600	.07560	3.39800
.598	4.470	-2.02000	.29450	.05570	.00530	.01490	-.00310	-.03590	.28930	.07850	3.68700
.599	5.560	-.95000	.32650	.05150	.00600	.01470	-.00300	-.03660	.32000	.08280	3.86200
.604	6.670	1.50000	.35430	.04790	.00610	.01680	-.00310	-.03710	.34640	.08880	3.90100
.597	7.830	1.28000	.39220	.04190	.00830	.01730	-.00320	-.03800	.38970	.09580	4.06600
.599	8.950	2.39000	.43380	.03610	.01100	.01750	-.00320	-.03910	.42290	.10320	4.09800
.601	10.070	3.48000	.47000	.03120	.01440	.01860	-.00330	-.04020	.45730	.11290	4.04900
.602	11.170	4.56000	.49820	.02690	.01830	.01810	-.00330	-.04080	.48350	.12290	3.93400
.602	12.320	5.63000	.53550	.02220	.02360	.01710	-.00310	-.04100	.51840	.13600	3.81300
.601	13.420	6.77000	.57440	.01780	.02880	.01670	-.00290	-.04130	.55450	.15060	3.68100
GRADIENT		.98246	.03026	-.00430	.00184	-.00184	.00009	-.00070	.02921	.00254	.26228

ARC14-080-1 CA23 747/1 01 AT1 (ORB MATED)

(RE9C36) (05 MAY 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1109.0000 IN. XO
 LREF = 474.8100 IN. YMRP = .0000 IN. YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0125

PARAMETRIC DATA

BETAC = .000 STAB-C = 5.000
 RUD-C = .000 BETAO = .000
 ELV-O = 5.000 AIL-O = .000
 RUD-O = 10.000 I-ORB = 6.000

RUN NO. 36/ 0 RN/L = 3.36 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ALPHAC	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.586	3.350	-3.12000	.27800	.05620	.00420	.02290	-.00970	.00690	.27430	.07240	3.79000
.585	4.480	-2.01000	.30860	.05140	.00650	.02040	-.00960	.00670	.30370	.07530	4.03000
.584	5.580	-.93000	.33930	.04640	.00850	.01720	-.00970	.00640	.33320	.07910	4.21000
.584	6.700	1.80000	.37070	.04110	.01050	.01840	-.00960	.00660	.36340	.08410	4.32100
.584	7.830	1.29000	.40160	.03640	.01380	.02070	-.00970	.00710	.39290	.09070	4.32900
.583	8.920	2.36000	.43540	.03040	.01770	.01880	-.00970	.00690	.42550	.09750	4.36200
.582	10.020	3.44000	.47140	.02460	.02200	.02090	-.00990	.00740	.46000	.10630	4.32700
.583	11.130	4.54000	.49750	.01990	.02510	.02040	-.00990	.00720	.48430	.11560	4.19000
.583	12.250	5.63000	.53460	.01480	.02930	.02000	-.01000	.00720	.51930	.12790	4.06100
.581	13.360	6.72000	.57380	.01060	.03370	.01850	-.01000	.00690	.55590	.14290	3.89100
GRADIENT		.98230	.02708	-.00425	.00204	-.00221	.00009	-.00018	.02602	.00257	.21239

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TABULATED SOURCE DATA - CA23A

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ARC14-080-1 CA23 747/1 01 AT1 (OR8 MATED)

(REC 37) (05 MAY 75)

REFERENCE DATA

SREF	-	2630.0000	SQ.FT.	YTRP	-	1109.0000	IN.	X0
LREF	-	474.8100	IN.	YTRP	-	.0000	IN.	Y0
BREF	-	936.6800	IN.	ZTRP	-	375.0000	IN.	Z0
SCALE	-	.0125						

BETAC
RUD-C
ELV-O
RUD-O

PARAMETRIC DATA

5,000	STAB-C	-
.000	BETA0	-
.000	AIL-0	-
5,000	I-ORB	-

RUN NO. 37/ 0 RN/L = 3.34 GRADIENT INTERVAL = -5.00/ 5.00

[illegible]

APC14-080-1 CA23 747/1 01 AT1 (ORB MATED)

(RE9C38) (05 MAY 75)

REFERENCE DATA

SREF	=	2630.0000	SQ.FT.	XPRP	=	1109.0000	IN.	XO
LREF	=	474.8100	IN.	YPRP	=	.0000	IN.	YO
BREF	=	936.6800	IN.	ZPRP	=	375.0000	IN.	ZO
SCALE	=	.0125						

BETAC
RUD-C
ELV-O
RUD-O

PARAMETRIC DATA

5.000	STAB-C	-
10.000	BETA0	-
5.000	AIL-0	-
9.000	I-ORB	-

RUN NO. 38/ 0 RN/L 3.46 GRADIENT INTERVAL -5.00/ 5.00

[illegible]

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TABULATED SOURCE DATA - CA23A

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ARC14-080-1 CA23 747/1 01 AT1 (ORB MATED)

(RESC41) (05 MAY 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1109.0000 IN. XO
 LREF = 474.8100 IN. YMRP = .0000 IN. YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0125

MACH	ALPHA	ALPHAC	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.600	5.450	-3.02000	.47500	.04470	-.03480	-.00550	.00100	.00010	.46860	.08960	5.22900
.599	6.600	-1.89000	.50970	.03940	-.03290	-.00560	.00100	.00030	.50180	.09770	5.13400
.599	7.710	-.80000	.54080	.03370	-.03030	-.00530	.00100	.00030	.53140	.10590	5.01600
.600	8.820	.29000	.57930	.02780	-.02610	-.00600	.00100	.00050	.56810	.11630	4.88400
.599	9.950	1.40000	.61740	.02270	-.02290	-.00700	.00090	.00010	.60410	.12310	4.68000
.601	11.060	2.19000	.65770	.01840	-.02040	-.00740	.00090	.00000	.64200	.14430	4.44900
.603	12.250	3.64000	.70130	.01440	-.01680	-.00620	.00100	.00020	.68230	.16280	4.19100
.601	13.310	4.68000	.73320	.01190	-.01440	-.00690	.00110	.00040	.71080	.18030	3.94200
.601	14.430	5.79000	.77140	.01080	-.01050	-.00640	.00070	.00050	.74440	.20270	3.67300
.601	15.520	6.86000	.79510	.01400	-.00470	-.00600	.00070	.00100	.76240	.22630	3.36900
.601	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

BETAC =
 RUO-C =
 ELV-O =
 RUO-O =

RUN NO. 42/ 0 RN/L = 3.45 GRADIENT INTERVAL = -5.00/ 5.00

ARC14-080-1 CA23 747/1 01 AT1 (ORB MATED)

(RESC42) (05 MAY 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1109.0000 IN. XO
 LREF = 474.8100 IN. YMRP = .0000 IN. YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0125

MACH	ALPHA	ALPHAC	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.600	5.390	-3.05000	.38550	.04880	.00160	.01650	-.00320	-.03760	.37920	.08470	4.47600
.601	6.490	-1.96000	.41950	.04360	.00290	.01840	-.00340	-.03860	.41180	.09070	4.33800
.600	7.600	-.88000	.45590	.03820	.00560	.01750	-.00350	-.03940	.44680	.09820	4.25000
.601	8.720	1.20000	.48620	.03290	.00870	.01740	-.00340	-.04070	.47560	.10620	4.17700
.602	9.900	1.38000	.52310	.02750	.01360	.01690	-.00320	-.04120	.51060	.11700	4.10400
.600	10.970	2.43000	.56120	.02300	.01780	.01730	-.00320	-.04160	.54650	.12540	4.02700
.601	12.180	3.62000	.60370	.01860	.02110	.01640	-.00290	-.04160	.58620	.14560	3.94200
.601	13.220	4.64000	.64030	.01770	.02270	.01800	-.00390	-.04090	.61920	.16370	3.78400
.601	14.310	5.70000	.67740	.01720	.02450	.01870	-.00450	-.04130	.65220	.18410	3.54200
.600	15.450	6.82000	.70800	.01790	.02920	.01570	-.00330	-.03980	.67770	.20580	3.25300
.600	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

BETAC =
 RUO-C =
 ELV-O =
 RUO-O =

RUN NO. 42/ 0 RN/L = 3.42 GRADIENT INTERVAL = -5.00/ 5.00

DATE 13 NOV 75

TABULATED SOURCE DATA - CA23A

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ARC14-080-1 CA23 747/1 01 AT1 (ORB MATED)

(RESC43) (05 MAY 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1109.0000 IN. XO
 LREF = 474.8100 IN. YMRP = .0000 IN. YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0125

BETAC = .000 STAB-C = 5.000
 RUD-C = .000 BETAO = .000
 ELV-O = .000 AIL-O = .000
 RUD-O = .000 I-ORB = 8.000

PARAMETRIC DATA

MACH	ALPHA	ALPHAC	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.602	5.310	-3.1000	.31810	.03810	.03720	-.00370	.00030	-.00150	.31320	.06740	4.64500
.598	6.440	-1.99000	.34650	.03300	.03970	-.00550	.00040	-.00160	.34060	.07170	4.75400
.598	7.520	-.93000	.37710	.02690	.04430	-.00420	.00040	-.00130	.37040	.07600	4.87200
.598	8.690	.23000	.40900	.02160	.04970	-.00700	.00040	-.00170	.40100	.08310	4.82400
.604	9.850	1.36000	.44250	.01560	.05410	-.00690	.00050	-.00150	.43330	.09100	4.76100
.602	10.970	2.45000	.48320	.01000	.05810	-.00330	.00000	-.00110	.47240	.10180	4.64200
.601	12.070	3.53000	.52160	.00630	.06070	-.00430	.00010	-.00110	.50880	.11520	4.41600
.602	13.170	4.61000	.56130	.00300	.06330	-.00500	.00020	-.00160	.54590	.13080	4.17300
.601	14.260	5.68000	.59920	.00610	.06290	-.00390	-.00140	-.00290	.57830	.15330	3.77300
.599	15.360	6.76000	.62960	.00470	.06540	-.00620	-.00100	-.00320	.60590	.17130	3.53700
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 44/ 0 RN/L = 3.45 GRADIENT INTERVAL = -5.00/ 5.00

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1109.0000 IN. XO
 LREF = 474.8100 IN. YMRP = .0000 IN. YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0125

BETAC = .000 STAB-C = -1.000
 RUD-C = .000 BETAO = .000
 ELV-O = .000 AIL-O = .000
 RUD-O = .000 I-ORB = 8.000

PARAMETRIC DATA

MACH	ALPHA	ALPHAC	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.598	5.400	-3.01000	.31620	.03690	.03730	-.00190	.00020	-.00110	.31130	.06650	4.67900
.598	6.530	-1.90000	.34910	.03120	.04060	-.00360	.00030	-.00120	.34320	.07070	4.85500
.601	7.650	-.80000	.37860	.02510	.04500	-.00380	.00030	-.00070	.37190	.07530	4.93700
.601	8.760	.29000	.40700	.02010	.05010	-.00260	.00040	-.00100	.39920	.08180	4.87900
.601	9.870	1.37000	.44420	.01460	.05510	-.00330	.00040	-.00100	.43510	.09050	4.81000
.602	11.010	2.49000	.48260	.00930	.05860	-.00210	.00010	-.00100	.46990	.10090	4.65700
.601	12.130	3.59000	.52620	.00520	.06200	-.00420	.00030	-.00120	.51340	.11560	4.44100
.602	13.280	4.72000	.56140	.00250	.06290	-.00540	.00040	-.00170	.54580	.13140	4.15300
.601	14.350	5.77000	.60000	.00540	.06320	-.00160	-.00110	-.00270	.57990	.15400	3.76600
.601	15.450	6.86000	.63490	.00500	.06610	-.00380	-.00070	-.00280	.61060	.17400	3.51000
.599	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 44/ 0 RN/L = 3.41 GRADIENT INTERVAL = -5.00/ 5.00

ARC14-080-1 CA23 747/1 01 AT1 (ORB MATED)

(RESC44) (05 MAY 75)

DATE 13 NOV 75

TABULATED SOURCE DATA - CA23A

ARC14-080-1 CA23 747/1 01 AT1 (ORB MATED)

(RESC45) (05 MAY 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1109.0000 IN. XO
LREF = 474.8100 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0125

BETAC = .000 STAB-C = -1.000
RUD-C = .000 BETAO = .000
ELV-O = .000 AIL-O = .000
RUD-O = .000 I-ORB = 4.000

PARAMETRIC DATA

RUN NO. 45/ 0 RN/L = 3.43 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ALPHAC	CN	CA	CLM	CY	CYN	CBL	CL	CO	L/D
.600	1.150	-3.15000	.08640	.05540	.03540	-.00120	.00080	-.00060	.08520	.05720	1.49100
.601	2.270	-2.05000	.11620	.05250	.03740	-.00080	.00070	-.00070	.11400	.05710	1.99800
.601	3.380	-.96000	.14360	.04850	.03890	-.00070	.00050	-.00040	.14050	.05680	2.47100
.602	4.490	1.14000	.17080	.04510	.04110	-.00320	.00070	-.00060	.16680	.05830	2.86000
.601	5.660	1.28000	.21010	.04040	.04390	-.00070	.00050	-.00030	.20510	.06090	3.36900
.602	6.760	2.57000	.24360	.03580	.04630	-.00070	.00040	-.00030	.23770	.06420	3.70100
.602	7.900	3.49000	.27500	.03100	.04880	-.00220	.00040	-.00040	.26810	.06850	4.00400
.603	9.010	4.57000	.30140	.02650	.05180	-.00220	.00040	-.00040	.29350	.07330	4.26900
.602	10.110	5.65000	.33120	.02140	.05740	-.00320	.00030	-.00030	.32230	.07920	4.47000
.601	11.210	6.74000	.36190	.01640	.06230	-.00190	.00010	-.00020	.35180	.08640	4.60900
	GRADIENT	.98472	.02521	-.00314	.00167	-.00053	-.00005	.00003	.02438	.00027	.41154

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1109.0000 IN. XO
LREF = 474.8100 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0125

BETAC = .000 STAB-C = 5.000
RUD-C = .000 BETAO = .000
ELV-O = .000 AIL-O = .000
RUD-O = .000 I-ORB = 4.000

PARAMETRIC DATA

ARC14-080-1 CA23 747/1 01 AT1 (ORB MATED)

(RESC46) (05 MAY 75)

RUN NO. 46/ 0 RN/L = 3.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ALPHAC	CN	CA	CLM	CY	CYN	CBL	CL	CO	L/D
.598	1.080	-3.23000	.08760	.05700	.03490	-.00110	.00080	-.00060	.08650	.05860	1.47600
.596	2.540	-1.79000	.11420	.05400	.03650	-.00170	.00070	-.00070	.11170	.05900	1.89200
.595	3.330	-1.01000	.14300	.05090	.03850	-.00160	.00060	-.00030	.13980	.05910	2.36600
.596	4.440	.09000	.17400	.04700	.04070	-.00250	.00060	-.00050	.16980	.06040	2.81200
.597	5.560	1.18000	.20340	.04300	.04250	-.00090	.00040	-.00050	.19830	.06250	3.17300
.596	6.660	2.27000	.23710	.03830	.04460	-.00090	.00040	-.00020	.23110	.06550	3.52700
.595	7.810	3.40000	.26830	.03400	.04740	-.00290	.00050	-.00030	.26120	.07010	3.72300
.596	8.900	4.47000	.29730	.02850	.05020	-.00280	.00040	-.00050	.28930	.07410	3.90200
.595	10.000	5.55000	.32670	.02410	.05530	-.00410	.00040	-.00050	.31760	.08050	3.94600
.594	11.120	6.65000	.35810	.01820	.06140	-.00310	.00020	-.00020	.34790	.08690	4.00300
	GRADIENT	.98797	.02618	-.00300	.00175	-.00038	-.00006	.00006	.02516	.00050	.40569

DATE 13 NOV 75

TABULATED SOURCE DATA - CA23A

ARC14-080-1 CA23 747/1 01 AT1 (ORB MATED)

(RESC47) (05 MAY 75)

PARAMETRIC DATA

BETAC = .000 STAB-C = 5.000
RUD-C = .000 BETAO = .000
ELV-O = 5.000 AIL-O = .000
RUD-O = .000 I-ORB = 4.000

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1109.0000 IN. XO
LREF = 474.8100 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = .375.0000 IN. ZO
SCALE = .0125

RUN NO. 47/ 0 RN/L = 3.52 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ALPHAC	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.602	1.150	-3.19000	.17030	.05790	-.00220	-.00010	.00100	.00030	.16910	.06130	2.75700
.602	2.270	-2.09000	.19700	.05470	-.00020	-.00310	.00100	.00020	.19480	.06240	3.12100
.601	3.440	-1.99000	.22680	.05150	.00170	-.00250	.00090	.00020	.22310	.06500	3.43400
.600	4.540	-.94000	.25780	.04730	.00430	-.00290	.00100	.00040	.25320	.06760	3.74600
.600	5.660	1.50000	.29050	.04290	.00690	-.00550	.00100	.00020	.28490	.07140	3.99100
.601	6.780	2.35000	.32120	.03790	.00930	-.00310	.00080	.00030	.31450	.07550	4.16500
.601	7.860	3.42000	.35090	.03360	.01160	-.00290	.00080	.00040	.34290	.08130	4.21800
.599	8.970	4.51000	.38200	.02850	.01460	-.00390	.00070	.00050	.37280	.08770	4.25100
.600	10.110	5.63000	.41220	.02310	.01910	-.00470	.00070	.00050	.40170	.09510	4.28400
.600	11.200	6.70000	.44050	.01830	.02390	-.00420	.00060	.00040	.42850	.10350	4.14100
.600	GRADIENT	.98499	.02574	-.00308	.00189	-.00069	-.00001	.00003	.02474	.00190	.28920

ARC14-080-1 CA23 747/1 01 AT1 (ORB MATED)

(RESC48) (05 MAY 75)

PARAMETRIC DATA

BETAC = .000 STAB-C = 5.000
RUD-C = .000 BETAO = .000
ELV-O = 5.000 AIL-O = .000
RUD-O = .000 I-ORB = 4.000

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1109.0000 IN. XO
LREF = 474.8100 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = .375.0000 IN. ZO
SCALE = .0125

RUN NO. 48/ 0 RN/L = 3.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ALPHAC	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.603	1.160	-3.18000	.16850	.05830	-.00250	-.00160	.00090	.00000	.16730	.06170	2.71300
.601	2.260	-2.09000	.19660	.05510	-.00090	-.00090	.00090	.00000	.19420	.06290	3.09000
.601	3.390	-.99000	.22740	.05150	.00200	-.00210	.00090	.00010	.22400	.06480	3.45500
.601	4.530	1.40000	.25450	.04780	.00370	-.00260	.00080	.00000	.24990	.06770	3.69000
.601	5.620	2.32000	.28760	.04350	.00640	-.00260	.00080	.00020	.28190	.07150	3.94500
.600	6.750	3.44000	.32490	.03850	.00950	-.00380	.00090	.00040	.31820	.07640	4.16400
.600	7.860	4.53000	.34930	.03360	.01110	-.00160	.00060	.00040	.34200	.08130	4.20900
.600	8.990	5.63000	.38270	.02890	.01510	-.00260	.00060	.00020	.37350	.08840	4.22500
.600	10.080	6.70000	.41210	.02420	.01890	-.00240	.00060	.00020	.40150	.09600	4.18300
.600	11.210	7.71000	.44290	.01850	.02410	-.00400	.00050	.00020	.43090	.10430	4.13200
.600	GRADIENT	.98486	.02559	-.00312	.00191	-.00038	-.00003	.00004	.02470	.00177	.29301

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TABULATED SOURCE DATA - CA23A

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ARC14-080-1 CA23 747/1 01 AT1 (ORB MATED)

REFERENCE DATA

SREF = 2630.0000 SQ. FT. XMRP = 1109.0000 IN. XO
 LREF = 474.8100 IN. YMRP = .0000 IN. YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0125

(RESCVS) (05 MAY 75)

PARAMETRIC DATA

BETAC = .000 STAB-C = -1.000
 RUD-C = .000 BETAO = .000
 ELV-O = 5.000 AIL-O = .000
 RUD-O = .000 I-ORB = 4.000

RUN NO. 49/ 0 RN/L = 3.41 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ALPHAC	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.597	1.210	-3.13000	.16540	.05700	-.00150	-.00260	.00110	-.00010	.16420	.06050	2.71400
.600	2.340	-2.02000	.19830	.05350	.00080	-.00240	.00100	.00010	.19600	.06160	3.18400
.604	3.480	-.90000	.22750	.04950	.00270	-.00300	.00100	.00000	.22410	.06320	3.54300
.603	4.610	.22000	.25740	.04570	.00500	-.00190	.00100	.00050	.25290	.06630	3.81700
.601	5.730	1.32000	.29110	.04110	.00790	-.00090	.00080	-.00010	.28560	.06990	4.08400
.603	6.880	2.45000	.32220	.03660	.01050	-.00370	.00080	.00020	.31550	.07500	4.20900
.603	7.990	3.54000	.35380	.03150	.01280	-.00290	.00080	.00050	.34600	.08030	4.30700
.603	9.060	4.60000	.38410	.02650	.01620	-.00290	.00070	.00050	.37510	.08670	4.32600
.603	10.140	5.65000	.41310	.02210	.02070	-.00230	.00070	.00050	.40270	.09440	4.26400
.603	11.270	6.77000	.43950	.01730	.02480	-.00450	.00070	.00030	.42770	.10290	4.15800
GRADIENT		.98501	.02691	-.00334	.00189	.00013	-.00003	.00015	.02594	.00168	.32345

ARC14-080-1 CA23 747/1 01 AT1 (ORB MATED)

(RESC50) (05 MAY 75)

REFERENCE DATA

SREF = 2630.0000 SQ. FT. XMRP = 1109.0000 IN. XO
 LREF = 474.8100 IN. YMRP = .0000 IN. YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0125

PARAMETRIC DATA

BETAC = .000 STAB-C = -1.000
 RUD-C = .000 BETAO = .000
 ELV-O = 10.000 AIL-O = .000
 RUD-O = .000 I-ORB = 4.000

RUN NO. 50/ 0 RN/L = 3.44 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ALPHAC	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.603	1.310	-3.06000	.24760	.06290	-.03750	-.00410	.00160	.00000	.24610	.06850	3.59200
.601	2.420	-1.97000	.28060	.05910	-.03540	-.00160	.00130	.00030	.27790	.07090	3.91900
.604	3.520	-.88000	.31160	.05520	-.03280	-.00470	.00130	.00000	.30760	.07430	4.14200
.604	4.710	.28000	.34290	.05090	-.03020	-.00370	.00120	.00020	.33760	.07890	4.27800
.604	5.820	1.38000	.36900	.04710	-.02840	-.00260	.00120	.00070	.36240	.08430	4.30000
.603	6.940	2.48000	.40360	.04210	-.02630	-.00390	.00110	.00050	.39550	.09050	4.37000
.603	8.100	3.62000	.43650	.03730	-.02450	-.00290	.00100	.00070	.42680	.09840	4.33800
.603	9.190	4.69000	.47080	.03190	-.02170	-.00360	.00100	.00080	.45970	.10670	4.30900
.604	10.220	5.70000	.49950	.02770	-.01760	-.00470	.00100	.00060	.48670	.11590	4.20100
.603	11.340	6.61000	.52590	.02290	-.01380	-.00520	.00090	.00070	.51110	.12590	4.06000
GRADIENT		.98314	.02803	-.00353	.00217	-.00017	-.00011	.00003	.02691	.00307	.20121

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DATE 13 NOV 75

TABULATED SOURCE DATA - CA23A

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ARC14-080-1 CA23 747/1 01 AT1 (ORB MATED)

(RESC51) (05 MAY 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1109.0000 IN. XO
 LREF = 474.8100 IN. YMRP = 0000 IN. YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0125

BETAC = .000 STAB-C = 5.000
 RUD-C = .000 BETAO = .000
 ELV-O = 10.000 AIL-O = .000
 RUD-O = .000 I-ORB = 4.000

PARAMETRIC DATA

RUN NO. 51/ 0 RN/L = 3.41 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ALPHAC	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.598	1.220	-3.15000	.24800	.06430	-.03870	-.00280	.00140	.00010	.24650	.06950	3.54600
.602	2.280	-2.10000	.27730	.06110	-.03690	-.00470	.00140	-.00020	.27470	.07210	3.81200
.603	3.400	-1.00000	.30460	.05740	-.03500	-.00140	.00110	.00020	.30070	.07530	3.99100
.601	4.520	.11000	.33240	.05350	-.03240	-.00500	.00130	-.00020	.32710	.07950	4.11300
.601	5.690	1.24000	.36970	.04890	-.02980	-.00420	.00120	.00040	.36300	.08520	4.25900
.601	6.840	2.58000	.40220	.04100	-.02760	-.00270	.00110	.00080	.39410	.09150	4.30400
.601	7.910	3.43000	.43370	.03960	-.02580	-.00510	.00100	.00040	.42410	.09890	4.28800
.602	9.020	4.53000	.46740	.03460	-.02340	-.00380	.00100	.00040	.45620	.10750	4.24400
.602	10.160	5.64000	.49710	.02940	-.01990	-.00520	.00100	.00030	.48420	.11660	4.15100
.603	11.250	6.71000	.52760	.02480	-.01460	-.00300	.00070	.00100	.51270	.12720	4.03100
	GRADIENT		.62544	-.00328	.00189	-.00030	-.00005	-.00004	.02426	.00302	.17020

ARC14-080-1 CA23 747/1 01 AT1 (ORB MATED)

(RESC52) (05 MAY 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1109.0000 IN. XO
 LREF = 474.8100 IN. YMRP = 0000 IN. YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0125

BETAC = .000 STAB-C = 5.000
 RUD-C = .000 BETAO = .000
 ELV-O = 5.000 AIL-O = -10.000
 RUD-O = .000 I-ORB = 4.000

PARAMETRIC DATA

RUN NO. 52/ 0 RN/L = 3.44 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ALPHAC	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.602	2.230	-2.11000	.17490	.06530	.00540	.01640	-.00330	-.03550	.17220	.07200	2.39200
.601	4.480	.10000	.23090	.05770	.00900	.01720	-.00350	-.03550	.22570	.07550	2.98900
.601	6.750	2.34000	.29950	.04950	.01180	.01590	-.00340	-.03690	.29160	.08440	3.45500
.603	8.930	4.48000	.36970	.04040	.01440	.01720	-.00370	-.03820	.35890	.09730	3.69000
.603	11.230	6.73000	.43210	.03080	.02200	.01770	-.00390	-.04020	.41790	.11430	3.65500
	GRADIENT		.98222	-.00338	.00160	.00036	-.00009	.00000	.02378	.00156	.26533

DATE 13 NOV 75

TABULATED SOURCE DATA - CA23A

PAGE 27

(RE9C53) (05 MAY 75)

ARC14-080-1 CA23 747/1(-S1-S12)01 AT1(ORB MATED)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1109.0000 IN. XO
 LREF = 474.8100 IN. YMRP = .0000 IN. YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0125

RUN NO. 53/ 0 RN/L = 3.45 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ALPHAC	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.600	3.430	-3.04000	.26200	.05030	.00380	-.00250	.00080	.00020	.25850	.06590	3.92200
.602	4.600	-1.89000	.29140	.04630	.00600	-.00260	.00070	.00020	.28670	.06960	4.12100
.601	5.720	-.79000	.32170	.04130	.00800	-.00270	.00060	.00060	.31600	.07310	4.32000
.602	6.850	.33000	.35840	.03560	.01080	-.00420	.00070	.00030	.35160	.07810	4.50000
.601	7.950	1.40000	.39090	.03110	.01430	-.00500	.00060	.00020	.38280	.08460	4.51400
.602	9.070	2.50000	.42220	.02470	.01840	-.00420	.00060	.00040	.41310	.09090	4.54200
.602	10.190	3.60000	.45360	.02000	.02260	-.00550	.00050	.00010	.44290	.10000	4.53100
.602	11.310	4.70000	.49060	.01470	.02710	-.00370	.00020	.00000	.47820	.11060	4.32400
.602	12.400	5.77000	.52640	.01010	.03010	-.00400	.00000	.00060	.51190	.12290	4.16500
.602	13.550	6.90000	.56500	.00610	.03290	-.00390	-.00020	.00080	.54780	.13830	3.96100
.602	GRADIENT	.98290	.02513	-.00342	.00188	-.00009	-.00009	.00000	.02410	.00316	.17009

PARAMETRIC DATA

BETAC = .000 STAB-C = 5.000
 RUO-C = .000 BETAO = .000
 ELV-O = 5.000 AIL-O = .000
 RUO-O = .000 I-ORB = 6.000

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1109.0000 IN. XO
 LREF = 474.8100 IN. YMRP = .0000 IN. YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0125

RUN NO. 54/ 0 RN/L = 3.44 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ALPHAC	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.596	5.510	-2.92000	.37800	.03900	.00560	-.00260	.00060	.00010	.37250	.07520	4.95600
.604	6.590	-1.87000	.40760	.03390	.00770	-.00270	.00060	.00030	.40100	.08050	4.98200
.603	7.720	-.76000	.44240	.02750	.01170	-.00380	.00060	.00040	.43470	.08670	5.01700
.600	8.840	.34000	.47730	.02210	.01660	-.00390	.00060	.00030	.46820	.09520	4.91900
.600	10.010	1.49000	.51030	.01680	.01990	-.00280	.00050	.00000	.49970	.10520	4.75100
.601	11.110	2.57000	.55430	.01140	.02270	-.00250	.00030	.00060	.54170	.11800	4.59200
.602	12.270	3.70000	.59180	.00740	.02470	-.00290	.00030	.00050	.57670	.13300	4.33600
.602	13.370	4.78000	.63600	.00350	.02800	-.00510	.00070	.00030	.61790	.15050	4.10700
.602	14.450	5.83000	.67580	.00180	.03000	-.00410	.00070	.00030	.65400	.17030	3.83900
.602	15.580	6.95000	.71210	.00510	.03290	-.00370	-.00050	.00170	.68460	.19610	3.49000
.602	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

PARAMETRIC DATA

BETAC = .000 STAB-C = 5.000
 RUO-C = .000 BETAO = .000
 ELV-O = 5.000 AIL-O = .000
 RUO-O = .000 I-ORB = 8.000

(RE9C54) (05 MAY 75)

ARC14-080-1 CA23 747/1(-S1-S12)01 AT1(ORB MATED)

DATE 13 NOV 75

TABULATED SOURCE DATA - CAP3A

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ARC14-U80-1 CA23 747/1(-S1-S12)05 AT1(ORB MATED)

(RE9C55) (05 MAY 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1109.0000 IN. XO
 LREF = 474.8100 IN. YMRP = .0000 IN. YO
 BREF = 935.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0125

RUN NO. 55/ 0 RN/L = 3.47 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ALPHAC	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.604	6.620	-1.83000	.40430	.03280	.01220	-.00270	.00040	-.00040	.39780	.07920	5.02100
.602	8.830	-.34000	.47270	.02150	.01840	-.00350	.00020	-.00090	.46380	.09390	4.94100
.603	11.150	2.61000	.55440	.01120	.02350	-.00270	-.00010	-.00040	.54170	.11820	4.58300
.603	13.410	4.82000	.63500	.00310	.02830	-.00490	.00020	-.00040	.61700	.15030	4.10500
.603	15.600	6.96000	.71330	.00490	.03320	-.00480	-.00090	-.00260	.68580	.19650	3.49000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

ARC14-U80-1 CA23 747/1(-S1-S12)03 AT1(ORB MATED)

(RE9C56) (05 MAY 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1109.0000 IN. XO
 LREF = 474.8100 IN. YMRP = .0000 IN. YO
 BREF = 935.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0125

RUN NO. 56/ 0 RN/L = 3.33 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ALPHAC	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.590	1.410	-2.93000	.18830	.02320	-.02650	-.00270	.00240	.00030	.18770	.02780	6.74100
.590	2.510	-1.84000	.21180	.02070	-.02360	-.00330	.00240	.00040	.21070	.02990	7.03500
.591	3.610	-.76000	.23870	.01750	-.02130	-.00350	.00230	.00000	.23710	.03250	7.23200
.593	4.750	.30000	.26960	.01400	-.01780	-.00230	.00250	.00050	.26750	.03630	7.38000
.590	5.850	1.45000	.30170	.01000	-.01500	-.00450	.00240	.00010	.29910	.04070	7.35700
.590	6.960	2.54000	.33220	.00550	-.01280	-.00560	.00230	.00030	.32910	.04570	7.20400
.589	8.080	3.64000	.36550	.00050	-.00920	-.00340	.00240	.00040	.36180	.05190	6.37300
.589	9.180	4.73000	.39700	-.00370	-.00600	-.00420	.00250	.00050	.39250	.05970	6.57900
.588	10.290	5.81000	.42740	-.00860	-.00200	-.00600	.00250	.00040	.42210	.06790	6.21800
.588	11.410	6.92000	.45750	-.01360	-.00350	-.00670	.00250	.00040	.45110	.07710	5.84800
.588	GRADIENT	.98470	.02436	-.00277	.00257	.00009	.00002	.00002	.02391	.00253	.19511

PARAMETRIC DATA

BETAC = .000 STAB-C = -1.000
 RUD-C = .000 BETAO = .000
 ELV-O = .000 AIL-O = .000
 RUD-O = .000 I-ORB = .000

PARAMETRIC DATA

BETAC = .000 STAB-C = 5.000
 RUD-C = .000 BETAO = .000
 ELV-O = .000 AIL-O = .000
 RUD-O = .000 I-ORB = .000

DATE 13 NOV 75
TABULATED SOURCE DATA - CA23A
ARC14-080-1 CA23 747/1 03 AT1 (ORB MATED)

(RE9C57) (05 MAY 75)

REFERENCE DATA									
SREF	2690.0000	SQ.FT.	XMRP	1109.0000	IN. XO	BETAC	.000	STAB-C	-1.000
LREF	474.8100	IN.	YMRP	.0000	IN. YO	RUD-C	.000	BETAO	.000
BREF	936.6800	IN.	ZMRP	375.0000	IN. ZO	ELV-O	5.000	AIL-O	.000
SCALE	.0125					RUD-O	.000	I-ORB	4.000
PARAMETRIC DATA									
GRADIENT INTERVAL = -5.00/ 5.00									
RUN NO. 57/ 0 RN/L = 3.41									
MACH	ALPHA	ALPHAC	CN	CA	CY	CLM	CYN	CBL	L/D
.591	1.270	-3.08000	.20540	.02490	-.00470	-.02700	.00190	.00000	.02940
.589	2.370	-1.99000	.22840	.02240	-.00300	-.02460	.00170	-.00010	.03180
.589	3.510	-.87000	.26200	.01830	-.00500	-.02110	.00180	.00010	.03430
.589	4.610	.21000	.28890	.01460	-.00370	-.01820	.00200	.00030	.03780
.593	5.740	1.32000	.31850	.01070	-.00520	-.01550	.00190	.00020	.04250
.593	6.870	2.53000	.35740	.00940	-.00380	-.01230	.00190	.00000	.04800
.589	7.970	3.52000	.38550	.00900	-.00620	-.01000	.00220	.00010	.05440
.589	9.080	4.61000	.41860	.00390	-.00630	-.00610	.00200	.00010	.06220
.588	10.180	5.69000	.44260	-.00870	-.00540	-.00300	.00200	.00050	.06960
.586	11.290	6.79000	.47670	-.01410	-.00340	-.00300	.00210	.00020	.07950
GRADIENT			.02547	-.00314	.00009	.00268	.00004	.00010	.00248

ARC14-080-1 CA23 747/1 (-51-512103 AT1(ORB MATED)

(RE9C58) (05 MAY 75)

REFERENCE DATA									
SREF	2690.0000	SQ.FT.	XMRP	1109.0000	IN. XO	BETAC	.000	STAB-C	-1.000
LREF	474.8100	IN.	YMRP	.0000	IN. YO	RUD-C	.000	BETAO	.000
BREF	936.6800	IN.	ZMRP	375.0000	IN. ZO	ELV-O	.000	AIL-O	.000
SCALE	.0125					RUD-O	.000	I-ORB	4.000
PARAMETRIC DATA									
GRADIENT INTERVAL = -5.00/ 5.00									
RUN NO. 58/ 0 RN/L = 3.43									
MACH	ALPHA	ALPHAC	CN	CA	CY	CLM	CYN	CBL	L/D
.595	1.290	-3.02000	.09040	.02470	-.00280	.01530	.00230	.00150	.02670
.593	2.430	-1.89000	.11960	.02190	-.00450	.01790	.00220	.00150	.02700
.593	3.550	-.78000	.14910	.01880	-.00280	.02080	.00220	.00150	.02800
.592	4.680	.32000	.17750	.01550	-.00450	.02320	.00240	.00130	.02990
.590	5.820	1.45000	.21300	.01090	-.00440	.02580	.00230	.00130	.03240
.590	6.910	2.53000	.24100	.00630	-.00360	.02800	.00230	.00130	.03580
.590	8.040	3.63000	.27380	.00250	-.00380	.03140	.00230	.00130	.04070
.590	9.130	4.71000	.30270	-.00240	-.00540	.03420	.00220	.00130	.04570
.591	10.210	5.77000	.33160	-.00690	-.00490	.03670	.00220	.00130	.05200
.591	11.320	6.86000	.36140	-.01190	-.00490	.04520	.00230	.00130	.05920
GRADIENT			.02576	-.00272	.00030	.00236	.00003	.00000	.00094

(RE9C59) (05 MAY 75)

DATE 13 NOV 75
TABULATED SOURCE DATA - CA23A
ARC14-080-1 CA23 747/1 03 AT1 (ORB MATED)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1109.0000 IN. XO
LREF = 474.8100 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0125

MACH		ALPHA		ALPHAC		CN		CA		CLM		CY		CYN		CBL		CL		CD		L/D	
.589	2.320	-2.01000	.14030	.02280	.01900	-.00480	.00210	.00130	.13930	.02850	4.98700												
.589	4.530	.17000	.19660	.01620	.02330	-.00450	.00220	.00130	.19470	.03170	6.14200												
.589	6.770	2.38000	.25860	.00730	.02830	-.00490	.00210	.00150	.25600	.03770	6.78300												
.589	9.010	4.58000	.32260	.00270	.03500	-.00560	.00200	.00130	.31910	.04790	6.65700												
.589	11.180	6.72000	.37330	.01170	.04530	-.00014	.00005	.00000	.36850	.06090	6.04700												
.589	GRADIENT	.58643	.02548	-.00293	.00195				.02507	.00145	.56787												

(RE9C60) (05 MAY 75)

ARC14-080-1 CA23 747/1 03 AT1 (ORB MATED)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1109.0000 IN. XO
LREF = 474.8100 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0125

MACH		ALPHA		ALPHAC		CN		CA		CLM		CY		CYN		CBL		CL		CD		L/D	
.589	6.780	.27000	.31220	.00500	.02340	-.00620	.00160	.00110	.30940	.04180	7.40600												
.589	9.020	2.48000	.37160	-.00580	.03770	-.00600	.00160	.00130	.36790	.05250	7.00400												
.589	11.210	4.63000	.43180	-.01650	.04840	-.00550	.00150	.00140	.42670	.06770	6.30000												
.589	13.430	6.82000	.50170	-.02650	.05540	-.00410	.00110	.00000	.49410	.09080	5.44000												
.589	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000												

PARAMETRIC DATA

BETAC = .000
RUD-C = .000
ELV-O = .000
RUD-O = .000

STAB-C = -1.000
BETAO = .000
AIL-O = .000
I-ORB = 6.000

GRADIENT INTERVAL = -5.00/ 5.00

PARAMETRIC DATA

BETAC = .000
RUD-C = .000
ELV-O = .000
RUD-O = .000

STAB-C = -1.000
BETAO = .000
AIL-O = .000
I-ORB = 6.000

GRADIENT INTERVAL = -5.00/ 5.00

DATE 13 NOV 75

TABULATED SOURCE DATA - CA23A

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ARC14-080-1 CA23 747/1 03 AT1 (ORB MATED)

(RESCB1) (05 MAY 75)

REFERENCE DATA

SREF = 2690.000 SQ. FT. XMRP = 1109.0000 IN. XO
 LREF = 474.8100 IN. YMRP = .0000 IN. YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0125

BETAC = -5.000 STAB-C = -1.000
 RUD-C = .000 BETAO = -5.000
 ELV-O = .000 AIL-O = .000
 RUD-O = .000 I-ORB = 4.000

PARAMETRIC DATA

RUN NO. 61/ 0 RN/L = 3.45 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ALPHAC	CN	CA	CL ^Y	CY	CYN	CBL	CL	CD	L/D
.598	1.210	-3.11000	.13530	.02150	.01630	.11220	.00140	.02170	.13480	.02440	5.52300
.597	2.310	-2.03000	.16250	.01830	.02010	.10890	.00140	.02210	.16170	.02490	6.50500
.601	3.440	-.92000	.18740	.01530	.02290	.10570	.00140	.02280	.18610	.02650	7.01500
.600	4.550	.18000	.21670	.01130	.02680	.10150	.00130	.02300	.21520	.02840	7.56700
.599	5.720	1.33000	.24730	.00690	.03000	.09580	.00140	.02400	.24540	.03150	7.78400
.598	6.830	2.41000	.27780	.00200	.03370	.09350	.00100	.02410	.27550	.03510	7.86000
.598	7.930	3.50000	.31070	-.00270	.03760	.08760	.00130	.02490	.30810	.04020	7.66400
.598	9.090	4.64000	.34090	-.00770	.04190	.08350	.00100	.02560	.33790	.04620	7.30500
.598	10.170	5.71000	.36620	-.01210	.04680	.08140	.00060	.02580	.36260	.05280	6.87200
.598	11.330	6.85000	.38970	-.01700	.05290	.07890	-.00040	.02670	.38350	.05990	6.43600
GRADIENT			.62413	-.00301	.00308	-.00316	-.00003	.00041	.02382	.00122	.59530

ARC14-080-1 CA23 747/1 (-SI-SI2103 AT1(ORB MATED)

(RESC62) (05 MAY 75)

REFERENCE DATA

SREF = 2690.000 SQ. FT. XMRP = 1109.0000 IN. XO
 LREF = 474.8100 IN. YMRP = .0000 IN. YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0125

BETAC = -5.000 STAB-C = -1.000
 RUD-C = .000 BETAO = -5.000
 ELV-O = .000 AIL-O = .000
 RUD-O = .000 I-ORB = 4.000

PARAMETRIC DATA

RUN NO. 62/ 0 RN/L = 3.42 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ALPHAC	CN	CA	CL ^Y	CY	CYN	CBL	CL	CD	L/D
.598	1.270	-3.04000	.11140	.02090	.01600	.11400	.00120	.02080	.11090	.02340	4.74900
.598	2.480	-1.85000	.13620	.01750	.01920	.10950	.00130	.02130	.13530	.02340	5.79200
.602	3.560	-.79000	.16290	.01430	.02270	.10500	.00100	.02170	.16170	.02440	6.62100
.600	4.660	.23000	.19310	.01070	.02760	.10100	.00110	.02220	.19360	.02650	7.25800
.597	5.810	1.43000	.22330	.00630	.03030	.09650	.00110	.02260	.22150	.02890	7.66100
.599	6.990	2.58000	.25590	.00190	.03420	.09320	.00100	.02330	.25370	.03000	7.68600
.601	8.100	3.68000	.28530	-.00300	.03710	.08680	.00080	.02370	.28290	.03730	7.59300
.601	9.160	4.72000	.31580	-.00740	.04140	.08250	.00060	.02390	.31300	.04300	7.28700
.601	10.240	5.79000	.34160	-.01190	.04620	.07990	.00020	.02470	.33830	.04910	6.89400
.602	11.410	6.94000	.37030	-.01630	.05260	.07760	-.00090	.02460	.36640	.05670	6.46400
GRADIENT			.62465	-.00300	.00340	-.00387	-.00005	.00041	.02436	.00091	.75459

DATE 13 NOV 75

TABULATED SOURCE DATA - CA23A

ARC14-080-1 CA23 747/1(-SI-SI2)01 AT1(ORB MATED)

(RESC63) (05 MAY 75)

PARAMETRIC DATA

BETAC = -5.000 STAB-C = 5.000
RUD-C = .000 BETAO = -5.000
ELV-O = 5.000 AIL-O = .000
RUD-O = .000 I-ORB = 8.000

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1109.0000 IN. XO
LREF = 474.8100 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0125

RUN NO. 63/ 0 RN/L = 3.42 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ALPHAC	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.595	5.470	-2.98000	.40580	.03540	.00570	.10920	-.00310	.02450	.40060	.07390	5.42100
.597	6.650	-1.82000	.43820	.02910	.00840	.10290	-.00340	.02490	.43180	.08020	5.38100
.598	7.750	-.74000	.46550	.02510	.01140	.09380	-.00370	.02540	.45790	.08760	5.22600
.596	8.900	.39000	.50830	.01890	.01660	.09340	-.00440	.02650	.49920	.09730	5.12900
.596	10.020	1.49000	.54180	.01410	.01930	.08640	-.00490	.02740	.53110	.10810	4.91100
.597	11.100	2.55000	.57140	.00970	.02140	.09690	-.00600	.02830	.55890	.11960	4.67500
.596	12.240	3.67000	.61810	.00490	.02490	.09460	-.00730	.02890	.60320	.13580	4.44000
.600	13.380	4.79000	.65390	.00200	.02840	.09530	-.01010	.02510	.63460	.15740	4.03200
.598	14.470	5.86000	.68410	.00420	.03210	.09330	-.01100	.02350	.66130	.17500	3.77800
.597	15.620	6.93000	.72430	.00300	.03760	.09300	-.01180	.02270	.69680	.19800	3.51900
			.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

(RESC64) (05 MAY 75)

ARC14-080-1 CA23 747/1(-SI-SI2)01 AT1(ORB MATED)

PARAMETRIC DATA

BETAC = -5.000 STAB-C = 5.000
RUD-C = .000 BETAO = -5.000
ELV-O = 5.000 AIL-O = .000
RUD-O = .000 I-ORB = 6.000

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1109.0000 IN. XO
LREF = 474.8100 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0125

RUN NO. 64/ 0 RN/L = 3.45 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ALPHAC	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.596	3.490	-3.00000	.29120	.04570	.00180	.11570	-.00390	.02190	.28780	.06340	4.54300
.595	4.590	-1.92000	.32080	.04190	.00460	.11330	-.00400	.02270	.31640	.06740	4.69600
.593	5.750	-.77000	.35350	.03760	.00780	.10870	-.00350	.02330	.34800	.07280	4.78000
.593	6.880	.34000	.38500	.03240	.01090	.10430	-.00380	.02400	.37930	.07840	4.83800
.593	7.960	1.41000	.41530	.02770	.01410	.10410	-.00420	.02500	.40900	.08520	4.80100
.593	9.130	2.55000	.45250	.02250	.01850	.10030	-.00450	.02510	.44320	.09410	4.71000
.592	10.230	3.64000	.47760	.01800	.02180	.09650	-.00510	.02520	.46680	.10250	4.55400
.592	11.360	4.74000	.51420	.01260	.02640	.09480	-.00570	.02610	.50160	.11370	4.41300
.591	12.460	5.82000	.55280	.00730	.02930	.09050	-.00650	.02700	.53820	.12640	4.25800
.590	13.580	6.93000	.59060	.00320	.03450	.08000	-.00760	.02740	.57330	.14180	4.04300
			.02691	-.00345	.00255	-.00218	-.00003	.00073	.02600	.00354	.13909

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TABULATED SOURCE DATA - CA23A

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(RESC65) (05 MAY 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1109.0000 IN. XO
 LREF = 474.8100 IN. YMRP = .0000 IN. YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0125

RUN NO. 65/ 0 RN/L = 3.48 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ALPHAC	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.604	3.380	-3.12000	.30960	.04600	-.00040	.11760	-.00410	.02320	.30640	.06420	4.77500
.604	4.540	-1.97000	.33700	.04220	.00270	.11340	-.00390	.02330	.33260	.06880	4.83600
.603	5.650	-.89000	.36960	.03730	.00640	.10740	-.00360	.02400	.36410	.07350	4.95200
.602	6.760	.20000	.40120	.03280	.00920	.10590	-.00390	.02470	.39460	.07980	4.94700
.601	7.880	1.31000	.43270	.02770	.01280	.10280	-.00430	.02530	.42480	.08680	4.89700
.600	9.000	2.42000	.46450	.02280	.01650	.09980	-.00480	.02590	.45520	.09520	4.78300
.600	10.130	3.53000	.49650	.01740	.02140	.09880	-.00540	.02630	.49370	.10590	4.66400
.601	11.280	4.65000	.52890	.01260	.02380	.09680	-.00680	.02770	.52600	.11780	4.46700
.601	12.380	5.73000	.57170	.00860	.02810	.09600	-.00760	.02840	.55660	.13090	4.25100
.602	13.520	6.86000	.60050	.00750	.03220	.09510	-.01000	.02650	.58210	.14770	3.94000
GRADIENT		.99138	.02362	-.00328	.00267	-.00362	.00017	.00009	.02259	.00397	.05259

PARAMETRIC DATA

BETAC = -5.000 STAB-C = 5.000
 RUD-C = .000 BETAO = -5.000
 ELV-O = 5.000 AIL-O = .000
 RUD-O = .000 I-ORB = 6.000

ARC14-080-1 CA23 747/1 01 ATI (ORB MATED)

(RESC66) (05 MAY 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1109.0000 IN. XO
 LREF = 474.8100 IN. YMRP = .0000 IN. YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0125

RUN NO. 66/ 0 RN/L = 3.48 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ALPHAC	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.597	1.190	-3.16000	.19540	.03480	-.00480	.12310	-.00350	.02100	.19430	.05880	3.30300
.599	2.330	-2.04000	.22360	.05180	-.00260	.12010	-.00400	.02140	.22130	.06080	3.64000
.600	3.440	-.94000	.25000	.04830	-.00050	.11490	-.00410	.02180	.24670	.06320	3.90000
.600	4.560	1.60000	.28360	.04380	.00280	.11400	-.00460	.02240	.27320	.06620	4.22000
.599	5.690	1.27000	.31300	.04030	.00540	.10810	-.00420	.02250	.30750	.07110	4.32500
.598	6.820	2.39000	.34040	.03500	.00790	.10280	-.00450	.02300	.33370	.07620	4.37700
.593	7.920	3.46000	.37350	.03180	.01070	.10160	-.00520	.02390	.36560	.08290	4.40700
.598	9.070	4.59000	.40200	.02720	.01410	.09720	-.00570	.02440	.39270	.09020	4.35600
.598	10.170	5.68000	.43220	.02210	.01890	.09350	-.00620	.02460	.42150	.09800	4.30000
.599	11.300	6.79000	.46240	.01720	.02500	.09250	-.00690	.02520	.45010	.10750	4.18900
GRADIENT		.98573	.02593	-.00325	.00222	-.00290	-.00030	.00041	.02496	.00219	.26841

PARAMETRIC DATA

BETAC = -5.000 STAB-C = 5.000
 RUD-C = .000 BETAO = -5.000
 ELV-O = 5.000 AIL-O = .000
 RUD-O = .000 I-ORB = 4.000

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TABULATED SOURCE DATA - CA23A

ARC 14-080-1 CA23 747/1 01 AT1 (ORB MATED)

(REF9C67) (05 MAY 75) PAGE 34

REFERENCE DATA

SREF	-	2690.0000	50. FT.	XPRP	-	1109.0000	IN. X0
LREF	-	474.8100	IN.	YPRP	-	0.0000	IN. Y0
BREF	-	336.6800	IN.	ZPRP	-	375.0000	IN. Z0
SCALE	-	.0125					

RUN NO. 67/ 0 RN/L = 3.47 GRADIENT INTERVAL = 3.00

[illegible]

ARC14-080-1 CA23 747/1 01 AT2 (ORB MATED)

(B93638) (05 MAY 75)

REFERENCE DATA

SREF	2690.0000	50. FT.	YARP	1109.0000	IN.	XO
LPEF	474.8100	IN.	YARP	0.0000	IN.	YO
BREF	936.6800	IN.	ZARP	375.0000	IN.	ZO
SCALE	.0125					

RUN NO. 68/ 0 RN/L = 3.53 GRADIENT INTERVAL = 3.00/

MACH	ALPHA	ALPHAC	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.599	3.370	-3.11000	.27890	.04700	.00010	.11430	-.00460	.02070	.27570	.06330	4.35400
.601	4.570	-1.93000	.31290	.04250	.00340	.11120	-.00440	.02110	.30850	.06730	4.58200
.599	5.660	-.86000	.34250	.03800	.00600	.10910	-.00440	.02160	.33710	.07160	4.70700
.597	6.760	.23000	.36830	.03420	.00830	.10510	-.00430	.02200	.36170	.07720	4.68300
.603	7.320	1.37000	.40620	.02850	.01190	.10280	-.00480	.02290	.39840	.08420	4.73200
.603	8.360	2.41000	.43400	.02400	.01500	.09860	-.00510	.02300	.42490	.09150	4.64500
.601	10.130	3.54000	.47020	.01800	.01920	.09820	-.00570	.02370	.45970	.10040	4.57700
.602	11.280	4.67000	.50000	.01340	.02230	.09560	-.00640	.02430	.48780	.11090	4.39800
.602	12.360	5.73000	.54050	.00900	.02640	.09530	-.00740	.02500	.52600	.12450	4.22600
.601	13.520	6.87000	.57540	.00670	.03000	.09590	-.00910	.02440	.55790	.14100	3.95600
			.02833	-.00375	.00275	-.00258	.00017	.00033	.02733	.00333	.19200
			.98333								

PARAMETRIC DATA

BETAC	-	-5.000	STAB-C	-	5.000
RUD-C	-	.000	BEYAO	-	-5.000
ELV-O	-	5.000	AIL-O	-	.000
STAB-O	-	.000	I-ORB	-	6.000

CL	CD	L/D
.27570	.06330	4.35400
.30850	.06730	4.58200
.33710	.07160	4.70700
.36170	.07720	4.68300
.39840	.08420	4.73200
.42490	.09150	4.64500
.45970	.10040	4.57700
.48780	.11090	4.39800
.52600	.12450	4.22600
.55790	.14100	3.95600
.02733	.00333	19000

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TABULATED SOURCE DATA - CA23A

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ARC14-080-1 CA23 747/1 01 AT3 (ORB MATED)

(RESC69) (05 MAY 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1109.0000 IN. XO
 LREF = 474.8100 IN. YMRP = .0000 IN. YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0125

PARAMETRIC DATA

BETAC = -5.000 STAB-C = 5.000
 RUD-C = .000 BETAO = -5.000
 ELV-O = 5.000 AIL-O = .000
 RUD-O = .000 I-ORB = 6.000

RUN NO. 69/ 0 RN/L = 3.43 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ALPHAC	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.598	3.430	-3.06000	.30260	.04660	-.00440	.11760	-.00550	.02090	.29930	.06460	4.63000
.598	4.560	-1.94000	.33360	.04220	-.00140	.11340	-.00520	.02120	.32920	.06860	4.80000
.601	5.660	-.87000	.35750	.03840	.00070	.11200	-.00510	.02190	.35200	.07340	4.79300
.602	6.760	.22000	.39150	.03330	.00420	.10890	-.00530	.02230	.38490	.07920	4.86200
.602	7.910	1.34000	.42750	.02820	.00790	.10610	-.00570	.02310	.41950	.08670	4.83700
.598	9.010	2.43000	.45710	.02280	.01150	.10390	-.00600	.02370	.44790	.09420	4.75500
.599	10.120	3.52000	.48730	.01750	.01510	.10350	-.00670	.02460	.47660	.10290	4.63300
.599	11.240	4.62000	.52170	.01230	.01890	.10070	-.00740	.02490	.50930	.11370	4.47900
.600	12.350	5.71000	.56160	.00720	.02340	.09950	-.00850	.02580	.54700	.12720	4.30100
.601	13.430	6.83000	.59300	.00620	.02610	.10210	-.01050	.02460	.57520	.14440	3.98400
GRADIENT		.99115	.02743	-.00389	.00265	-.00372	.00027	.00027	.02646	.00354	.15044

ARC14-080-1 CA23 747/1 01 AT3 (ORB MATED)

(RESC70) (05 MAY 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1109.0000 IN. XO
 LREF = 474.8100 IN. YMRP = .0000 IN. YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0125

PARAMETRIC DATA

BETAC = .000 STAB-C = 5.000
 RUD-C = .000 BETAO = .000
 ELV-O = 5.000 AIL-O = .000
 RUD-O = .000 I-ORB = 6.000

RUN NO. 70/ 0 RN/L = 3.48 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ALPHAC	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.599	3.650	-2.84000	.29030	.04940	.00340	.00010	.00010	.00020	.28660	.06780	4.22700
.598	4.730	-1.77000	.31740	.04500	.00490	-.00250	.00020	-.00020	.31260	.07100	4.40600
.597	5.840	-.68000	.35050	.04030	.00750	-.00190	.00030	-.00010	.34460	.07580	4.54800
.600	6.960	.42000	.38550	.03440	.01020	-.00150	.00020	-.00010	.37950	.08100	4.68600
.601	8.140	1.57000	.42050	.02850	.01430	-.00030	.00020	.00010	.41230	.08770	4.70100
.599	9.240	2.66000	.45130	.02370	.01790	-.00220	.00010	.00000	.44160	.09590	4.60500
.599	10.330	3.73000	.47890	.01900	.02130	-.00070	.00000	-.00030	.46780	.10450	4.47600
.599	11.440	4.82000	.52170	.01360	.02650	-.00080	-.00020	-.00010	.50870	.11680	4.35500
.601	12.560	5.92000	.55750	.00950	.02930	-.00050	-.00030	.00020	.54200	.13050	4.15200
.599	13.710	7.04000	.59870	.00560	.03290	-.00050	-.00040	.00120	.58030	.14730	3.94000
GRADIENT		.99074	.02509	-.00407	.00139	-.00241	.00003	-.00037	.02407	.00236	.16574

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TABULATED SOURCE DATA - CA23A

ARC14-080-1 CA23 747/1 01 AT2 (ORB MATED)

(RE9C71) (05 MAY 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1109.0000 IN. XO
LREF = 474.8100 IN. YMRP = 0000 IN. YO
BREF = 936.6900 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0125

BETAC =
RUD-C =
ELV-O =
RUD-U =

5.000
5.000
5.000
6.000

PARAMETRIC DATA

RUN NO. 71/ 0 RN/L = 3.48 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ALPHAC	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.601	3.630	-2.85000	.28000	.04990	.00450	-.00270	.00030	.00010	.27630	.06760	4.08900
.600	4.730	-1.76000	.30970	.04550	.00630	-.00200	.00030	.00020	.30490	.07090	4.30100
.598	5.850	-.67000	.34530	.04020	.00870	.00010	.00020	.00050	.33940	.07520	4.51300
.600	6.960	.42000	.37340	.03560	.01070	-.00060	.00030	.00040	.36630	.08060	4.54700
.601	8.120	1.56000	.41180	.02920	.01460	-.00020	.00020	.00050	.40350	.08710	4.63300
.600	9.210	2.53000	.44080	.02410	.01810	-.00020	.00030	.00050	.43130	.09430	4.57100
.600	10.320	3.73000	.47670	.01870	.02270	-.00020	.00020	.00050	.46560	.10390	4.48300
.601	11.430	4.81000	.51030	.01400	.02630	-.00010	.00010	.00020	.49740	.11480	4.33100
.601	12.530	5.89700	.54780	.01010	.02980	-.00030	.00010	.00020	.52950	.12870	4.13700
.601	13.660	7.00000	.58910	.00630	.03290	-.00020	.00010	.00090	.57090	.14530	3.93000
.601	GRADIENT	.99091	.02700	-.00400	.00164	.00064	.00000	.00009	.02600	.00300	.19273

ARC14-080-1 CA23 747/4 01 AT1 (MATED)

(RE9D22) (05 MAY 75)

REFERENCE DATA

SREF = 5500.0000 SQ.FT. XMRP = 1339.9000 IN. XC
LREF = 327.7800 IN. YMRP = 0000 IN. YC
BREF = 2348.0400 IN. ZMRP = 190.7500 IN. ZC
SCALE = .0125

BETAC =
RUD-C =
ELV-O =
RUD-U =

5.000
5.000
5.000
6.000

PARAMETRIC DATA

RUN NO. 22/ 0 RN/L = 3.47 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ALPHAC	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.600	3.43000	-3.060	.18830	.07770	-.03190	.00280	.00100	.00030	.18390	.08760	-2.09900
.597	4.57000	-1.930	.07420	.07930	-.03330	.00490	.00090	.00010	-.07150	.08170	-.87500
.602	5.67000	-.850	.02320	.08140	-.02920	.00550	.00060	.00040	.02440	.08100	.30100
.601	6.63000	.290	.12220	.08140	-.02740	.00610	.00060	.00050	.12180	.08200	1.48500
.601	7.95000	1.390	.22440	.07980	-.02330	.00650	.00050	.00080	.22240	.08530	2.60700
.601	9.11000	2.530	.33900	.07540	-.02200	.00790	.00040	.00040	.33540	.09030	3.71400
.601	10.23000	3.630	.43300	.06840	-.01340	.00590	.00060	.00040	.42870	.09570	4.47800
.601	11.35000	4.730	.53090	.06180	-.01740	.00620	.00030	.00100	.52400	.10540	4.97200
.600	12.45000	5.820	.62240	.05220	-.00330	.00640	.00030	.00080	.61390	.11500	5.33800
.600	13.57000	6.910	.71710	.04340	-.00190	.00780	.00010	.00080	.70660	.12940	5.46000
.599	GRADIENT	1.01721	.09218	-.00198	.00247	.00039	.00008	.00012	.09074	.00241	.93659

ARC14-080-1 CA23 747/1 01 AT1 (MATED)

REFERENCE DATA

SREF = 5500.0000 SQ.FT. XMRP = 1339.9000 IN. XC
 LREF = 327.7800 IN. YMRP = .0000 IN. YC
 BREF = 2348.0400 IN. ZMRP = 190.7500 IN. ZC
 SCALE = .0125

PARAMETRIC DATA

BETAC = .000 STAB-C = 5.000
 RUD-C = .000 BETAO = .000
 ELV-O = 5.000 AIL-O = .000
 RUD-O = .000 I-ORB = 6.000

RUN NO. 23/ 0 RN/L = 3.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAC	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.704	-3.160	3.37000	-2.1830	.08270	.00270	.00310	-.00130	.00050	-.21340	.09460	-2.25600
.699	-2.060	4.43000	-1.0650	.08490	-.01920	.00470	-.00140	.00030	-.10340	.08870	-1.16500
.700	-.890	5.63000	.02210	.08720	-.04250	.00690	-.00130	.00030	.02340	.08690	.27000
.698	.220	6.82000	.13280	.08790	-.05960	.00520	-.00090	.00090	.13250	.08640	1.49900
.698	1.400	8.02000	.25470	.08750	-.07990	.00590	-.00090	.00090	.25250	.09370	2.69500
.698	2.530	9.18000	.36830	.08430	-.10340	.00770	-.00100	.00090	.36430	.10040	3.62700
.700	3.690	10.36000	.47770	.07990	-.11640	.00690	-.00130	.00060	.47160	.11040	4.27300
.701	4.760	11.47000	.57780	.07520	-.13280	.00650	-.00120	.00080	.56960	.12280	4.63700
.701	5.890	12.61000	.68440	.06850	-.14940	.00760	-.00110	.00050	.67380	.13820	4.87500
.701	7.010	13.75000	.79410	.06230	-.16950	.01020	-.00110	.00180	.78060	.15870	4.92000
.698	GRADIENT	1.02238	.10102	-.00090	-.01713	.00041	.00002	.00005	.09939	.00368	.00774

ARC14-080-1 CA23 747/1 01 AT1 (MATED)

REFERENCE DATA

SREF = 5500.0000 SQ.FT. XMRP = 1339.9000 IN. XC
 LREF = 327.7800 IN. YMRP = .0000 IN. YC
 BREF = 2348.0400 IN. ZMRP = 190.7500 IN. ZC
 SCALE = .0125

PARAMETRIC DATA

BETAC = .000 STAB-C = 5.000
 RUD-C = .000 BETAO = .000
 ELV-O = 5.000 AIL-O = .000
 RUD-O = .000 I-ORB = 6.000

RUN NO. 24/ 0 RN/L = 3.32 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAC	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.585	-3.100	3.38000	-1.17670	.08090	.00570	.00290	-.00090	.00020	-.17200	.09030	-1.90500
.584	-1.960	4.53000	-.06860	.08340	-.01930	.00170	-.00080	.00060	-.06570	.08570	-.76700
.585	-.900	5.60000	.02760	.08310	-.03610	.00730	-.00110	.00060	.02890	.08470	.34200
.585	.210	6.74000	.14970	.08620	-.05970	.00480	-.00100	.00060	.14930	.08670	1.72200
.585	1.310	7.85000	.24770	.09490	-.07640	.00630	-.00100	.00010	.24570	.09060	2.71300
.585	2.400	8.56000	.35650	.08100	-.09880	.00780	-.00120	.00020	.35280	.09580	3.68200
.584	3.470	10.05000	.45200	.07580	-.12140	.00710	-.00090	.00140	.44660	.10300	4.33700
.586	4.560	11.16000	.55930	.06800	-.13950	.00980	-.00090	.00150	.55210	.11220	4.92000
.586	5.680	12.30000	.66370	.05850	-.15350	.00920	-.00100	.00110	.65470	.12380	5.28700
.585	6.760	13.40000	.76150	.04940	-.15430	.00990	-.00090	.00230	.75040	.13870	5.41100
.585	GRADIENT	1.01612	.09633	-.00154	-.01887	.00085	-.00001	.00012	.09479	.00301	.91906

REPRODUCIBILITY OF THE
 ORIGINAL PAGE IS POOR

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TABULATED SOURCE DATA - CA23A

ARC14-080-1 CA23 747/1 01 AT1 (MATED)

(RES025) (05 MAY 75)

REFERENCE DATA

SREF = 5500.0000 SQ.FT. XMRP = 1339.9000 IN. XC
LREF = 327.7800 IN. YMRP = .0000 IN. YC
BREF = 2348.0400 IN. ZMRP = 190.7500 IN. ZC
SCALE = .0125

PARAMETRIC DATA

BETAC = .000 STAB-C = 5.000
RUD-C = .000 BETAO = .000
ELV-O = 5.000 AIL-O = .000
RUD-O = .000 I-ORB = 6.000

RUN NO. 25/ 0 RN/L = 3.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAC	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CO	L/D
.501	-3.090	3.35000	-1.15620	.08040	.00650	.00270	-.00110	-.00020	-.15170	.08870	-1.71000
.501	-2.010	4.45000	-.04580	.08290	-.01940	.00660	-.00120	-.00020	-.04280	.08450	-.50700
.501	-.920	5.54000	.04510	.08520	-.03490	.00320	-.00080	.00030	.04650	.08450	.55000
.501	.110	6.59000	.14590	.09590	-.05290	.00920	-.00100	.00010	.14570	.08610	1.69200
.501	1.220	7.71000	.24220	.08460	-.07090	.00800	-.00100	.00070	.24040	.08970	2.67800
.501	2.260	8.76000	.34830	.08110	-.09300	.00800	-.00090	.00050	.34480	.09480	3.63900
.501	3.350	9.87000	.45400	.07540	-.11860	.00870	-.00100	.00090	.44880	.10180	4.40900
.502	4.380	10.92000	.54810	.06820	-.13760	.01020	-.00100	.00130	.54130	.10990	5.92500
.503	5.470	12.02000	.65050	.05810	-.15450	.00870	-.00070	.00180	.64200	.11990	5.35500
.502	6.540	13.11000	.74430	.04900	-.16430	.00880	-.00090	.00230	.73350	.13340	5.50000
	GRADIENT	1.01258	.09399	-.00152	-.01891	.00085	-.00002	.00019	.09247	.00300	.90597

ARC14-080-1 CA23 747/1 01 AT1 (MATED)

(RES026) (05 MAY 75)

REFERENCE DATA

SREF = 5500.0000 SQ.FT. XMRP = 1339.9000 IN. XC
LREF = 327.7800 IN. YMRP = .0000 IN. YC
BREF = 2348.0400 IN. ZMRP = 190.7500 IN. ZC
SCALE = .0125

PARAMETRIC DATA

BETAC = .000 STAB-C = 5.000
RUD-C = .000 BETAO = .000
ELV-O = 5.000 AIL-O = .000
RUD-O = .000 I-ORB = 6.000

RUN NO. 26/ 0 RN/L = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAC	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CO	L/D
.301	-3.020	3.35000	-1.13180	.08210	.01560	.00020	-.00120	.00020	-.12730	.08890	-1.73100
.302	-1.980	4.40000	-.01930	.08650	-.00730	.00430	-.00110	-.00040	-.01640	.08710	-.18800
.303	-.960	5.42000	.06270	.08650	-.02650	.00430	-.00100	.00010	.06420	.09550	.75100
.303	.080	6.47000	.16950	.08800	-.04360	.00910	-.00130	.00080	.16940	.06830	1.91900
.303	1.080	7.48000	.24540	.08540	-.06320	.00880	-.00100	.00100	.24380	.09100	2.67900
.304	2.110	8.51000	.34440	.08450	-.08130	.01050	-.00110	.00030	.34110	.09710	3.51300
.301	3.130	9.53000	.41910	.07860	-.10170	.01420	-.00130	.00090	.41420	.10130	4.08900
.301	4.160	10.57000	.51970	.07220	-.12330	.01410	-.00120	.00100	.51310	.10970	4.67800
.301	5.170	11.58000	.60550	.06320	-.14290	.01410	-.00150	.00180	.59730	.11750	5.08400
.301	6.190	12.61000	.68660	.05360	-.15850	.01760	-.00120	.00100	.67680	.12740	5.31400
	GRADIENT	1.00523	.08922	-.00135	-.01893	.00152	-.00001	.00018	.08767	.00295	.85108

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TABULATED SOURCE DATA - CA23A

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ARC14-080-1 CA23 747/1 01 AT1 (MATED)

(R9027) (05 MAY 75)

REFERENCE DATA

SREF = 5500.0000 SQ. FT. XMRP = 1339.5000 IN. XC
 LREF = 327.7800 IN. YMRP = .0000 IN. YC
 BREF = 2348.0400 IN. ZMRP = 190.7500 IN. ZC
 SCALE = .0125

BETAC = .000 STAB-C = 5.000
 RUO-C = 10.000 BETAO = .000
 ELV-O = 5.000 AIL-O = .000
 RUO-O = .000 I-ORB = 6.000

PARAMETRIC DATA

RUN NO. 27/ 0 RN/L = 3.44 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAC	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.591	-3.080	3.39000	-1.18910	.08030	.00430	.03110	-.01630	.03290	-.18450	.09030	-2.04300
.590	-1.990	4.51000	-.07890	.08320	-.02000	.03230	-.01630	.00320	-.07600	.08590	-.88500
.588	-.850	5.66000	.03500	.08500	-.04120	.03220	-.01610	.00390	.03630	.08450	.43000
.590	.210	6.74000	.13460	.08540	-.05620	.03290	-.01600	.00390	.13420	.08590	1.56300
.588	1.300	7.84000	.23820	.08410	-.07770	.03170	-.01600	.00410	.23620	.08950	2.64000
.589	2.410	8.97000	.34940	.08120	-.09530	.03530	-.01640	.00320	.34570	.09580	3.60300
.588	3.480	10.06000	.44430	.07590	-.11630	.03240	-.01590	.00360	.43891	.10270	4.27200
.588	4.570	11.17000	.55080	.06850	-.13910	.03550	-.01630	.00400	.54360	.11210	4.84700
.587	5.650	12.27000	.64400	.06000	-.15130	.03810	-.01640	.00420	.63491	.12310	5.15800
.588	6.770	13.41000	.75560	.04570	-.16200	.03920	-.01690	.00460	.74550	.13850	5.38200
	GRADIENT	1.01602	.09636	-.00143	-.01838	.00044	.00001	.00009	.09482	.00298	.92255

ARC14-080-1 CA23 747/1 01 AT1 (MATED)

(R9028) (05 MAY 75)

REFERENCE DATA

SREF = 5500.0000 SQ. FT. XMRP = 1339.9000 IN. XC
 LREF = 327.7800 IN. YMRP = .0000 IN. YC
 BREF = 2348.0400 IN. ZMRP = 190.7500 IN. ZC
 SCALE = .0125

BETAC = .000 STAB-C = 3.000
 RUO-C = .000 BETAO = .000
 ELV-O = 5.000 AIL-O = .000
 RUO-O = .000 I-ORB = 6.000

PARAMETRIC DATA

RUN NO. 28/ 0 RN/L = 3.46 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAC	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.593	-3.050	3.42000	-.20700	.07720	.11190	.00430	-.00080	-.00050	-.20260	.08810	-2.29900
.593	-1.970	4.52000	-.11140	.08000	.08860	.00250	-.00030	.00030	-.10850	.08380	-1.29600
.591	-.860	5.65000	-.00060	.08170	.06570	.00630	-.00050	-.00040	.00060	.08170	.00800
.591	.210	6.74000	.10320	.08250	.04580	.00660	-.00040	.00050	.10290	.08290	1.24200
.591	1.320	7.87000	.20780	.08130	.02690	.00910	-.00030	.00140	.20590	.08600	2.39300
.590	2.430	8.93000	.32020	.07810	.01000	.00870	-.00040	.00060	.31660	.09160	3.45700
.591	3.530	10.11000	.42850	.07090	.01690	.00730	-.00040	.00080	.42330	.09720	4.35600
.590	4.600	11.21000	.52310	.06440	-.03310	.00780	-.00050	.00120	.51620	.10620	4.86100
.590	5.720	12.34000	.63260	.05430	-.04790	.00960	-.00020	.00140	.62400	.11700	5.33300
.591	6.800	13.44000	.72680	.04560	-.05510	.00860	-.00030	.00160	.71630	.13130	5.45600
	GRADIENT	1.01738	.09646	-.00160	-.01878	.00063	.00002	.00020	.09499	.00246	.97670

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TABULATED SOURCE DATA - CA23A

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ARC14-080-1 CA23 747/1 01 AT1 (MATED)

(RE9029) (05 MAY 75)

REFERENCE DATA

SREF = 5500.0000 SQ.FT. XMRP = 1339.9000 IN. XC
 LREF = 327.7800 IN. YMRP = .0000 IN. YC
 BREF = 2348.0400 IN. ZMRP = 190.7500 IN. ZC
 SCALE = .0125

RUN NO. 29/ 0 RN/L = 3.39 GRADIENT INTERVAL = -5.00/ 5.00

PARAMETRIC DATA

BETAC = .000 STAB-C = -1.000
 RUD-C = .000 BETAO = .000
 ELV-O = 5.000 AIL-O = .000
 RUD-O = .000 I-ORB = 6.000

MACH	ALPHAC	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.591	-1.900	4.60000	-1.15180	.07800	.29970	.00500	-.00110	.00010	-.14910	.08290	-1.79800
.589	-.800	5.71000	-.04790	.07990	.28030	.00460	-.00090	.00030	-.04680	.08060	-.58100
.589	.290	6.82000	.05960	.08100	.26390	.00320	-.00050	.00020	.05920	.08130	.72800
.589	1.400	7.95000	.16730	.07950	.24540	.00360	-.00050	.00060	.16530	.08370	1.97600
.589	2.520	9.09000	.28150	.07580	.22270	.00310	-.00090	.00090	.27790	.08810	3.15300
.591	3.640	10.22000	.38710	.05900	.19910	.00790	-.00080	.00100	.38190	.09340	4.09000
.591	4.660	11.27000	.47690	.06150	.18230	.00980	-.00100	.00110	.47240	.10020	4.71400
.589	5.760	12.39000	.58240	.05310	.17430	.00850	-.00100	.00080	.57410	.11130	5.15700
.589	6.850	13.50000	.67400	.04440	.16230	.00990	-.00100	.00150	.66390	.12450	5.33400
GRADIENT		1.01655	.09693	-.00248	-.01806	.00064	.00000	.00017	.09552	.00273	1.01727

ARC14-080-1 CA23 747/1 01 AT1 (MATED)

(RE9030) (05 MAY 75)

REFERENCE DATA

SREF = 5500.0000 SQ.FT. XMRP = 1339.9000 IN. XC
 LREF = 327.7800 IN. YMRP = .0000 IN. YC
 BREF = 2348.0400 IN. ZMRP = 190.7500 IN. ZC
 SCALE = .0125

RUN NO. 30/ 0 RN/L = 3.51 GRADIENT INTERVAL = -5.00/ 5.00

PARAMETRIC DATA

BETAC = .000 STAB-C = -1.000
 RUD-C = .000 BETAO = .000
 ELV-O = 10.000 AIL-O = .000
 RUD-O = .000 I-ORB = 6.000

MACH	ALPHAC	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.601	-2.930	3.58000	-.22500	.08240	.34690	.00490	-.00130	.00030	-.22050	.09380	-2.35000
.598	-1.860	4.67000	-.12670	.08330	.33030	.00630	-.00110	.00040	-.12390	.08730	-1.41900
.597	-.750	5.79000	-.02220	.08490	.31320	.00700	-.00120	.00030	-.02110	.08520	-.24700
.595	.330	6.89000	.08450	.08510	.28920	.00770	-.00120	.00080	.08400	.08560	.98200
.604	1.450	8.04000	.18990	.08450	.27490	.00910	-.00130	.00050	.18770	.08930	2.10200
.603	2.580	9.19000	.31480	.08040	.24780	.00920	-.00120	.00110	.31080	.09450	3.29000
.603	3.660	10.29000	.41420	.07490	.22470	.00950	-.00130	.00110	.40860	.10120	4.03600
.597	4.760	11.40000	.51060	.06750	.20580	.01000	-.00110	.00110	.50330	.10960	4.59000
.599	5.830	12.50000	.61200	.05860	.19160	.01070	-.00120	.00160	.60290	.12040	5.00800
.600	6.930	13.62000	.71530	.05040	.18170	.00870	-.00070	.00160	.70400	.13640	5.16300
GRADIENT		1.01783	.09694	-.00174	-.01866	.00064	.00000	.00021	.09541	.00229	.94653

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TABULATED SOURCE DATA - CA23A

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ARC14-080-1 CA23 747/1 01 ATI (MATED)

(RE9031) (05 MAY 75)

REFERENCE DATA

SREF = 5500.0000 SQ.FT. XMRP = 1339.9000 IN. XC
 LREF = 327.7800 IN. YMRP = .0000 IN. YC
 BRPF = 2348.0400 IN. ZMRP = 190.7500 IN. ZC
 SCALE = .0125

PARAMETRIC DATA

BETAC = .000 STAB-C = 5.000
 RUO-C = .000 BETAO = .000
 ELV-O = 10.000 ATL-O = .000
 RUO-O = .000 I-ORB = 6.000

RUN NO. 31/ 0 RN/L = 3.44 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAC	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.604	-3.070	3.44000	-.16230	.08460	.04730	.00280	-.00140	.00030	-.15750	.09320	-1.69000
.601	-1.950	4.59000	-.05000	.08720	.01590	.00600	-.00140	-.00010	-.04700	.08880	-.52900
.601	-.880	5.66000	.05270	.08350	-.00730	.00600	-.00140	.00080	.05400	.08770	.61600
.601	.250	6.82000	.16630	.08980	-.02720	.00760	-.00120	.00110	.16590	.09050	1.83300
.602	1.360	7.97000	.28480	.08880	-.04880	.00820	-.00140	.00070	.28260	.09560	2.95600
.599	2.490	9.10000	.39260	.08440	-.07260	.01120	-.00130	.00090	.38850	.10140	3.83300
.599	3.580	10.21000	.48110	.07890	-.09370	.00860	-.00090	.00090	.47520	.10880	4.36900
.600	4.680	11.32000	.60230	.07110	-.12020	.00950	-.00110	.00100	.59450	.11990	4.95700
.600	5.720	12.39000	.68730	.06360	-.12760	.01040	-.00110	.00150	.67760	.13180	5.14100
.600	6.850	13.55000	.78850	.05550	-.13590	.01020	-.00090	.00260	.77620	.14920	5.20300
GRADIENT		1.01708	.69820	-.00160	-.02081	.00073	.00005	.00008	.09658	.00358	.87841

ARC14-080-1 CA23 747/1 01 ATI (MATED)

(RE9032) (05 MAY 75)

REFERENCE DATA

SREF = 5500.0000 SQ.FT. XMRP = 1339.9000 IN. XC
 LREF = 327.7800 IN. YMRP = .0000 IN. YC
 BRPF = 2348.0400 IN. ZMRP = 190.7500 IN. ZC
 SCALE = .0125

PARAMETRIC DATA

BETAC = .000 STAB-C = 5.000
 RUO-C = .000 BETAO = .000
 ELV-O = .000 ATL-O = .000
 RUO-O = .000 I-ORB = 6.000

RUN NO. 32/ 0 RN/L = 3.46 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAC	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.601	-3.170	3.28000	-.22270	.07690	-.01860	.00420	-.00170	.00020	-.21820	.08910	-2.45000
.601	-2.090	4.38000	-.11000	.07940	-.04040	.00360	-.0010	.00020	-.10700	.08340	-1.28300
.601	-.930	5.55000	.00350	.08120	-.06220	.00660	-.00110	.00040	.00480	.08120	.05900
.597	.160	6.65000	.10370	.08190	-.08010	.00810	-.00110	.00040	.10350	.08220	1.25800
.598	1.250	7.70000	.21190	.08050	-.10100	.00600	-.00100	.00050	.21010	.08510	2.46700
.599	2.320	8.86000	.32470	.07710	-.12460	.00780	-.00110	.00030	.32130	.09020	3.56100
.600	3.430	10.00000	.41980	.07210	-.14180	.01020	-.00110	.00060	.41480	.09710	4.27100
.599	4.510	11.09000	.52330	.06270	-.16210	.01130	-.00120	.00080	.51670	.10370	4.98500
.600	5.650	12.25000	.63000	.05400	-.17340	.00850	-.00070	.00140	.62170	.11580	5.37000
.600	6.720	13.34000	.72330	.04560	-.18240	.00980	-.00080	.00170	.71950	.13070	5.50600
GRADIENT		1.01745	.69693	-.00161	-.01865	.00091	.00001	.00007	.09555	.00216	.99315

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TABULATED SOURCE DATA - CA23A

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ARC14-080-1 CA23 747/1 05 ATI (MATED)

(REGD33) (05 MAY 75)

REFERENCE DATA

SREF = 5500 0000 SQ.FT. XMRP = 1339.9000 IN. XC
 LREF = 327.7800 IN. YMRP = .0000 IN. YC
 BREF = 2348.0400 IN. ZMRP = 190.7500 IN. ZC
 SCALE = .0125

RUN NO. 33/ 0 RN/L = 3.43 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAC	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.600	-3.150	3.29000	-.23450	.07550	-.02730	.00270	-.00140	-.00010	-.23000	.08830	-2.60400
.598	-2.050	4.40000	-.11380	.07890	-.05290	.00560	-.00130	.00010	-.11090	.08280	-1.33900
.596	-.930	5.54000	-.00970	.07950	-.07770	.00830	-.00110	.00010	-.00840	.07960	-.10600
.502	.140	6.64000	.09760	.08120	-.09770	.00580	-.00080	.00100	.09740	.08140	1.19500
.600	1.230	7.74000	.19750	.07920	-.11880	.00770	-.00090	.00070	.19580	.08350	2.34600
.601	2.250	8.78000	.30190	.07660	-.13800	.00760	-.00100	.00010	.29870	.08840	3.37900
.601	3.450	0.00000	.42450	.07110	-.15520	.00780	-.00070	.00140	.41950	.09650	4.34800
.601	4.540	11.11000	.51600	.06360	-.16750	.00680	-.00060	.00180	.50940	.10420	4.89000
.600	5.600	12.19000	.61780	.05410	-.17890	.00940	-.00080	.00100	.60960	.11410	5.34200
.600	6.680	13.30000	.71960	.04570	-.18480	.00940	-.00060	.00140	.70940	.12910	5.49400
	GRADIENT	1.01740	.09765	-.00145	-.01838	.00043	-.00010	.00021	.09621	.00227	1.00523

PARAMETRIC DATA

BETAC = .000 STAB-C = 5.000
 RUD-C = .000 BETAO = .000
 ELV-O = .000 AIL-O = .000
 RUD-O = .000 I-ORB = 6.000

ARC14-080-1 CA23 747/1 01 ATI (MATED)

(REGD34) (05 MAY 75)

REFERENCE DATA

SREF = 5500 0000 SQ.FT. XMRP = 1339.9000 IN. XC
 LREF = 327.7800 IN. YMRP = .0000 IN. YC
 BREF = 2348.0400 IN. ZMRP = 190.7500 IN. ZC
 SCALE = .0125

RUN NO. 34/ 0 RN/L = 3.44 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAC	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.602	-3.090	3.37000	-.29420	.07400	.30150	.00450	-.00160	-.00010	-.28980	.08970	-3.23000
.598	-2.000	4.47000	-.19270	.07600	.27970	.00480	-.00150	.00010	-.19000	.08270	-2.29700
.602	.240	6.74000	.02960	.07890	.23870	.00830	-.00120	.00030	.02930	.07900	.37100
.601	1.330	7.85000	.13490	.07810	.22010	.00480	-.00100	.00040	.13300	.08120	1.63900
.600	2.450	8.99000	.25230	.07420	.19840	.00680	-.00120	.00090	.24890	.07490	2.93200
.601	3.550	10.11000	.34950	.06790	.18040	.00950	-.00140	.00060	.34460	.08950	3.85300
.601	4.640	11.22000	.44960	.06010	.16140	.01010	-.00130	.00070	.44330	.09630	4.60500
.600	5.730	12.33000	.55100	.05200	.15260	.01030	-.00120	.00180	.54300	.10670	5.08800
.601	6.810	13.43000	.64040	.04370	.14370	.00850	-.00090	.00220	.63070	.11930	5.28600
	GRADIENT	1.01661	.09714	-.00154	-.01810	.00067	-.00004	.00012	.09575	.00090	1.05885

PARAMETRIC DATA

BETAC = .000 STAB-C = -1.000
 RUD-C = .000 BETAO = .000
 ELV-O = .000 AIL-O = .000
 RUD-O = .000 I-ORB = 6.000

REFERENCE DATA

SREF = 9500.000 SQ. FT. XMRP = 1339.9000 IN. XC
 LREF = 327.7800 IN. YMRP = .0000 IN. YC
 BREF = 2348.0400 IN. ZMRP = 190.7500 IN. ZC
 SCALE = .0125

PARAMETRIC DATA

BETAC = .000 STAB-C = 5.000
 RUO-C = .000 BETAO = .000
 ELV-O = 5.000 AIL-O = -10.000
 RUO-O = .000 I-ORB = 6.000

RUN NO. 35/ 0 RN/L = 3.46 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAC	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.601	-3.140	3.33000	.20300	.08250	.0310	.01070	-.00370	-.00120	-.19820	.09350	-2.12000
.599	-2.020	4.47000	-.08840	.08530	-.00520	.01390	-.00400	-.00250	-.08530	.08940	-.95400
.599	-1.950	5.56000	.01130	.08750	-.02920	.01800	-.00440	-.00220	.01270	.08730	.14600
.594	1.150	6.67000	.12190	.08980	-.04420	.01810	-.00430	-.00200	.02160	.09010	1.35100
.597	1.280	7.83000	.23240	.08880	-.06520	.01810	-.00450	-.00120	.23040	.09400	2.45100
.599	2.390	8.95000	.37300	.08560	-.08540	.01590	-.00470	-.00110	.34350	.10000	3.43400
.601	3.480	10.07000	.44920	.08000	-.10690	.01550	-.00470	-.00100	.44350	.10710	4.14200
.602	4.560	11.17000	.55610	.07250	-.12440	.01700	-.00460	-.00080	.54850	.11650	4.70700
.602	5.590	12.32000	.65960	.06410	-.13700	.01820	-.00450	-.00110	.65010	.12910	5.03500
.601	6.770	13.42000	.75680	.05600	-.14680	.01600	-.00430	-.00070	.74490	.14480	5.14300
	GRADIENT	1.01794	.09855	-.00117	-.01794	.00049	-.00012	.00016	.09695	.00315	.91031

ARC14-080-1 CA23 747/1 01 ATI (MATED)

REFERENCE DATA

SREF = 5500.000 SQ. FT. XMRP = 1339.9000 IN. XC
 LREF = 327.7800 IN. YMRP = .0000 IN. YC
 BREF = 2348.0400 IN. ZMRP = 190.7500 IN. ZC
 SCALE = .0125

PARAMETRIC DATA

BETAC = .000 STAB-C = 5.000
 RUO-C = .000 BETAO = .000
 ELV-O = 5.000 AIL-O = .000
 RUO-O = 10.000 I-ORB = 6.000

RUN NO. 36/ 0 RN/L = 3.36 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAC	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.586	-3.120	3.35000	-.18800	.08210	.01150	.01010	-.00120	.00120	-.18330	.09220	-1.98800
.585	-2.010	4.48000	-.07840	.08450	-.01200	.01270	-.00150	.00210	-.07540	.08720	-.86500
.584	-1.930	5.58000	.02440	.08630	-.03310	.01600	-.00160	.00230	.02580	.08590	.30000
.584	1.180	6.70000	.13370	.08690	-.05320	.01600	-.00170	.00190	.13340	.08730	1.52800
.584	1.290	7.83000	.24230	.08530	-.07240	.01730	-.00200	.00200	.24090	.09080	2.65400
.583	2.360	8.92000	.35030	.08290	-.09350	.02040	-.00220	.00240	.34660	.09730	3.56400
.582	3.440	10.02000	.44370	.07680	-.11710	.01890	-.00230	.00230	.43830	.10330	4.24100
.583	4.520	11.13000	.54430	.06990	-.13350	.02190	-.00240	.00310	.53710	.11270	4.76600
.583	5.630	12.25000	.64820	.05930	-.15040	.02240	-.00270	.00350	.63920	.12270	5.21200
.581	6.720	13.36000	.75670	.05150	-.15860	.01970	-.00250	.00340	.74550	.13970	5.33600
	GRADIENT	1.01589	.09607	-.00147	-.01895	.00140	-.00016	.00016	.09452	.00284	.91187

TABULATED SOURCE DATA - CA23A
 ARC14-080-1 CA23 747/1 01 AT1 (MATED)

REFERENCE DATA

SREF = 5500.0000 SQ.FT. XMRP = 1339.9000 IN. XC
 LREF = 327.7800 IN. YMRP = .0000 IN. YC
 BREF = 2348.0400 IN. ZMRP = 190.7500 IN. ZC
 SCALE = .0125

RUN NO. 37/ 0 RN/L = 3.34 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAC	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.587	-3.090	5.34000	-1.16510	.08310	.07100	.00520	-.00220	-.00070	-.16040	.09180	-1.74600
.586	-1.970	6.48000	-.05830	.08590	.04770	.00270	-.00180	.00010	-.05530	.08780	-.63000
.587	-.850	7.62000	.05320	.08780	.02220	.00770	-.00190	.00020	.05450	.08700	.62600
.584	.210	8.70000	.15630	.08960	.00470	.00670	-.00180	.00080	.15600	.09020	1.72900
.585	1.330	9.85000	.25600	.08920	-.01420	.00540	-.00170	.00010	.25390	.09510	2.67000
.585	2.430	10.98000	.37010	.08710	-.02980	.00690	-.00140	.00090	.36610	.10280	3.56300
.585	3.510	12.07000	.48660	.08220	-.04710	.00630	-.00150	.00200	.47470	.11150	4.25600
.584	4.620	13.19000	.57510	.07660	-.05480	.00940	-.00180	.00190	.56710	.12260	4.62500
.584	5.710	14.31000	.68100	.07090	-.07030	.01020	-.00170	.00140	.67060	.13830	4.84700
.585	6.810	15.43000	.79070	.06680	-.09650	.00960	-.00170	.00230	.77720	.16010	4.85400
GRADIENT		1.01884	.09668	-.00072	-.01733	.00047	.00006	.00031	.09504	.00418	.85338

REFERENCE DATA

SREF = 5500.0000 SQ.FT. XMRP = 1339.9000 IN. XC
 LREF = 327.7800 IN. YMRP = .0000 IN. YC
 BREF = 2348.0400 IN. ZMRP = 190.7500 IN. ZC
 SCALE = .0125

RUN NO. 38/ 0 RN/L = 3.46 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAC	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.593	-3.050	5.38000	-1.16450	.08360	.07350	.02890	-.01780	.00350	-.15980	.09220	-1.73200
.593	-1.960	6.50000	-.05640	.08700	.04980	.03230	-.01800	.00320	-.05330	.08880	-.60100
.592	-.870	7.60000	.04580	.08950	.02750	.03390	-.01770	.00380	.04720	.08880	.53100
.592	.230	8.73000	.14750	.09050	.00830	.03570	-.01770	.00400	.14710	.09110	1.61500
.590	1.370	9.88000	.26770	.09070	-.01460	.03600	-.01740	.00410	.26540	.09700	2.73500
.590	2.440	10.98000	.37250	.08760	-.02950	.03680	-.01760	.00400	.36940	.10340	3.57100
.590	3.540	12.10000	.48210	.08370	-.04630	.03630	-.01730	.00380	.47600	.11330	4.20100
.590	4.630	13.21000	.58270	.07800	-.05830	.03790	-.01750	.00460	.57450	.12470	4.60500
.590	5.730	14.32000	.68170	.07180	-.07950	.03970	-.01820	.00440	.67120	.13950	4.81200
.590	6.810	15.43000	.77640	.06870	-.09780	.04060	-.01840	.00580	.76280	.16020	4.76100
GRADIENT		1.01917	.09776	-.00066	-.01730	.00100	.00007	.00012	.03609	.00433	.85159

REFERENCE DATA

SREF = 5500.0000 SQ.FT. XMRP = 1339.9000 IN. XC
 LREF = 327.7800 IN. YMRP = .0000 IN. YC
 BREF = 2348.0400 IN. ZMRP = 190.7500 IN. ZC
 SCALE = .0125

RUN NO. 39/ 0 RN/L = 3.46 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAC	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.593	-3.050	5.38000	-1.16450	.08360	.07350	.02890	-.01780	.00350	-.15980	.09220	-1.73200
.593	-1.960	6.50000	-.05640	.08700	.04980	.03230	-.01800	.00320	-.05330	.08880	-.60100
.592	-.870	7.60000	.04580	.08950	.02750	.03390	-.01770	.00380	.04720	.08880	.53100
.592	.230	8.73000	.14750	.09050	.00830	.03570	-.01770	.00400	.14710	.09110	1.61500
.590	1.370	9.88000	.26770	.09070	-.01460	.03600	-.01740	.00410	.26540	.09700	2.73500
.590	2.440	10.98000	.37250	.08760	-.02950	.03680	-.01760	.00400	.36940	.10340	3.57100
.590	3.540	12.10000	.48210	.08370	-.04630	.03630	-.01730	.00380	.47600	.11330	4.20100
.590	4.630	13.21000	.58270	.07800	-.05830	.03790	-.01750	.00460	.57450	.12470	4.60500
.590	5.730	14.32000	.68170	.07180	-.07950	.03970	-.01820	.00440	.67120	.13950	4.81200
.590	6.810	15.43000	.77640	.06870	-.09780	.04060	-.01840	.00580	.76280	.16020	4.76100
GRADIENT		1.01917	.09776	-.00066	-.01730	.00100	.00007	.00012	.03609	.00433	.85159

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TABULATED SOURCE DATA - CA23A

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ARC14-080-1 CA23 747/1 01 AT1 (MATED)

(RES039) (05 MAY 75)

REFERENCE DATA

SREF = 5500.0000 SQ.FT. XMRP = 1339.9000 IN. XC
 LREF = 327.7800 IN. YMRP = .0000 IN. YC
 BREF = 2348.0400 IN. ZMRP = 193.7500 IN. ZC
 SCALE = .0125

PARAMETRIC DATA

BETAC = .000 STAB-C = -1.000
 RUO-C = .000 BETAO = .000
 ELV-O = 5.000 AIL-O = .000
 RUO-O = .000 I-ORR = 8.000

RUN NO. 39/ 0 RN/L = 3.46 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAC	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.600	-1.840	6.62002	-1.3620	.08190	.36220	.00430	-.00200	.00010	-.13350	.08620	-1.54800
.600	-.780	7.70000	-.02650	.08410	.33960	.00460	-.00190	.00010	-.02540	.08450	-.30100
.599	.350	8.85000	.08830	.08570	.31500	.00620	-.00200	.00080	.08780	.08620	1.01800
.600	1.480	10.00000	.20470	.08490	.29510	.00630	-.00180	.00060	.20250	.09020	2.24600
.598	2.550	11.10000	.30140	.08300	.28080	.00570	-.00180	.00060	.29740	.09640	3.08600
.598	3.630	12.20000	.41060	.07310	.26360	.00840	-.00180	.00090	.40480	.10500	3.85700
.598	4.750	13.30000	.51440	.07290	.24400	.00770	-.00150	.00140	.50660	.11520	4.39600
.598	5.840	14.45000	.61200	.06640	.22330	.01160	-.00190	.00140	.60210	.12830	4.69300
.598	6.920	15.55000	.70720	.06320	.20970	.00860	-.00170	.00200	.69440	.14800	4.69200
.598	GRADIENT	1.02013	.09871	-.00129	-.01757	.00056	.00006	.00017	.09712	.00449	.91670

ARC14-080-1 CA23 747/1 01 AT1 (MATED)

(RES040) (05 MAY 75)

REFERENCE DATA

SREF = 5500.0000 SQ.FT. XMRP = 1339.9000 IN. XC
 LREF = 327.7800 IN. YMRP = .0000 IN. YC
 BREF = 2348.0400 IN. ZMRP = 190.7500 IN. ZC
 SCALE = .0125

PARAMETRIC DATA

BETAC = .000 STAB-C = -1.000
 RUO-C = .000 BETAO = .000
 ELV-O = 10.000 AIL-O = .000
 RUO-O = .000 I-ORR = 8.000

RUN NO. 40/ 0 RN/L = 3.46 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAC	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.598	-2.950	5.52000	-.20600	.08920	.38150	.00490	-.00200	-.00130	-.20120	.09970	-2.01700
.596	-1.830	6.66000	-.08170	.09060	.37870	.00460	-.00190	-.00040	-.07880	.09320	-.84500
.590	-.740	7.77000	.02260	.09180	.36620	.00730	-.00170	-.00020	.02380	.09150	.26000
.599	.360	8.90000	.11300	.09250	.35090	.00360	-.00140	.00050	.11240	.09320	1.20600
.600	1.510	10.06000	.22670	.09170	.33070	.00770	-.00200	.00060	.23420	.09770	2.29500
.600	2.590	11.17000	.33140	.09000	.31630	.00720	-.00180	.00080	.32700	.10490	3.11500
.600	3.740	12.34000	.44780	.08590	.29080	.00720	-.00170	.00100	.44130	.11490	3.84000
.598	4.790	13.42000	.55940	.07960	.25740	.01060	-.00240	.00080	.55080	.12600	4.37200
.601	5.880	14.53000	.64680	.07400	.23390	.00340	-.00180	.00130	.63580	.13990	4.54400
.602	6.970	15.63000	.74060	.07090	.22040	.01090	-.00190	.00180	.72660	.16020	4.53600
.602	GRADIENT	1.02028	.09708	-.00104	-.01631	.00061	-.00003	.00026	.09537	.00362	.83526

ARC14-080-1 CA23 747/1 01 AT1 (MATED)

(RES041) (05 MAY 75)

REFERENCE DATA

SREF = 5500.000 SQ.FT. XMRP = 1339.9000 IN. XC
LREF = 327.7800 IN. YMRP = .0000 IN. YC
BREF = 2348.0400 IN. ZMRP = 190.7500 IN. ZC
SCALE = .0125

BETAC = .000 STAB-C = 5.000
RUD-C = .000 BETAO = .000
ELV-O = 10.000 AIL-O = .000
RUD-O = .000 I-ORB = 8.000

RUN NO. 41/ 0 RN/L = 3.45 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ALPHAC	CN	CA	CLM	CY	CYN	CBL	CL	CO	L/D
.600	5.45000	-3.020	-1.14300	.08760	.10970	.00220	-.00140	.00020	-.13820	.09500	-1.45400
.599	5.60000	-1.800	-.01850	.09190	.08440	.00580	-.00160	-.00030	-.01550	.09240	-.16800
.598	5.75000	-1.600	.08130	.09430	.09530	.00570	-.00170	-.00070	.08260	.09320	-.08700
.597	5.90000	-.200	.19150	.09610	.03430	.00670	-.00160	.00070	.19100	.09700	1.96900
.600	6.05000	1.400	.30540	.09590	.01310	.00650	-.00170	.00020	.30300	.10340	2.93100
.599	6.20000	2.450	.41890	.09310	-.00890	.00770	-.00190	.00050	.41450	.11120	3.92700
.601	6.35000	3.640	.52040	.08930	-.02600	.00840	-.00160	.00090	.51360	.12220	4.90400
.603	6.50000	4.680	.61770	.08390	-.04590	.00860	-.00200	.00120	.60880	.13410	5.84000
.601	6.65000	5.790	.71570	.07800	-.06330	.01310	-.00230	.00150	.70420	.14970	6.70300
.602	6.80000	6.860	.81280	.07510	-.07670	.00780	-.00120	.00180	.79810	.17170	7.64900
	GRADIENT		.09685	-.00046	-.02017	.00059	-.00005	.00016	.09708	.00522	.79237

REFERENCE DATA

SREF = 5500.000 SQ.FT. XMRP = 1339.9000 IN. XC
LREF = 327.7800 IN. YMRP = .0000 IN. YC
BREF = 2348.0400 IN. ZMRP = 190.7500 IN. ZC
SCALE = .0125

BETAC = .000 STAB-C = 5.000
RUD-C = .000 BETAO = .000
ELV-O = 5.000 AIL-O = -10.000
RUD-O = .000 I-ORB = 8.000

RUN NO. 42/ 0 RN/L = 3.42 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ALPHAC	CN	CA	CLM	CY	CYN	CBL	CL	CO	L/D
.600	5.39000	-3.050	-1.16120	.08690	.07190	.01080	-.00360	-.00230	-.15640	.09530	-1.64100
.601	5.54000	-1.960	-.05750	.08950	.05230	.01290	-.00400	-.00200	-.05440	.09140	-.59600
.600	5.69000	-.800	.04930	.09290	.03810	.01490	-.00480	-.00210	.05070	.09220	.55000
.601	5.84000	1.200	.15570	.09450	.01650	.01750	-.00520	.00210	.15540	.09510	1.63300
.602	5.99000	2.300	.27210	.09420	-.00770	.01820	-.00590	-.00110	.26970	.10070	2.67800
.600	6.14000	3.400	.37490	.09200	-.02250	.01790	-.00610	-.00100	.37050	.10780	3.63800
.601	6.29000	4.500	.49190	.08780	-.04430	.01680	-.00640	.00200	.48540	.11870	4.68900
.601	6.44000	5.600	.59430	.08440	-.06400	.01740	-.00630	.00140	.57760	.13150	5.74200
.601	6.59000	6.700	.69340	.07920	-.08400	.01860	-.00630	-.00100	.66810	.14630	6.79800
.600	6.74000	7.800	.78610	.07320	-.10360	.01640	-.00520	.00010	.77180	.16600	7.84900
	GRADIENT		.09775	-.00031	-.01768	.00031	-.00037	.00011	.09601	.00477	.81195

ARC14-080-1 CA23 747/1 01 AT1 (MATED)

(RES042) (05 MAY 75)

DATE 13 NOV 75

TABULATED SOURCE DATA - CA23A

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ARC14-080-1 CA23 747/1 01 AT1 (MATED)

(RES043) (05 MAY 75)

REFERENCE DATA

SREF = 9500.0000 SQ.FT. XMRP = 1339.9000 IN. XC
 LREF = 327.7800 IN. YMRP = .0000 IN. YC
 BRPF = 2348.0400 IN. ZMRP = 190.7500 IN. ZC
 SCALE = .0125

PARAMETRIC DATA

BETAC = .000 STAB-C = 5.000
 RUO-C = .000 BETAO = .000
 ELV-O = .000 AIL-O = .000
 RUO-O = .000 I-ORR = 8.000

RUN NO. 43/ 0 RN/L = 3.45 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAC	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.602	-3.100	5.31000	-20530	.07920	.03750	.00320	-.00200	.00010	-.20070	.09020	-2.22500
.598	-1.990	6.44000	-.08020	.08260	.01130	.00290	-.00180	.00050	-.07730	.08530	-.90500
.596	-.930	7.52000	.03020	.08450	-.00800	.00700	-.00200	.00010	.03160	.08400	.37600
.598	.230	8.68000	.12890	.08580	-.02440	.00670	-.00170	.00000	.12860	.08630	1.46900
.604	1.360	9.85000	.25430	.08580	-.04250	.00510	-.00130	.00070	.25220	.09180	2.74900
.602	2.450	10.57000	.35450	.08220	-.06350	.00670	-.00170	.00020	.35070	.09730	3.60400
.601	3.530	12.07000	.45920	.07840	-.07600	.00820	-.00170	.00060	.45350	.10660	4.25400
.602	4.610	13.17000	.55670	.07320	-.09080	.00900	-.00150	.00050	.54900	.11770	4.66400
.601	5.680	14.26000	.65650	.07020	-.10590	.00870	-.00170	.00120	.64630	.13480	4.79500
.599	6.760	15.36000	.75800	.06370	-.11950	.00910	-.00160	.00180	.74520	.15250	4.88700
GRADIENT		1.01981	.69834	-.00075	-.01637	.00069	.00006	.00012	.09676	.00370	.91586

ARC14-080-1 CA23 747/1 01 AT1 (MATED)

(RES044) (05 MAY 75)

REFERENCE DATA

SREF = 9500.0000 SQ.FT. XMRP = 1339.9000 IN. XC
 LREF = 327.7800 IN. YMRP = .0000 IN. YC
 BRPF = 2348.0400 IN. ZMRP = 190.7500 IN. ZC
 SCALE = .0125

PARAMETRIC DATA

BETAC = .000 STAB-C = -1.000
 RUO-C = .000 BETAO = .000
 ELV-O = .000 AIL-O = .000
 RUO-O = .000 I-ORR = 8.000

RUN NO. 44/ 0 RN/L = 3.41 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAC	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.598	-3.010	5.40000	-27120	.07640	.34690	.00400	-.00240	.00010	-.26680	.09050	-2.84700
.598	-1.900	6.53000	-.14170	.07990	.32340	.00620	-.00250	-.00060	-.13900	.08460	-1.64400
.601	-.800	7.65000	-.03420	.08200	.30040	.00420	-.00230	.00100	-.03310	.08240	-.40100
.601	.290	8.76000	.07280	.08260	.27820	.00650	-.00200	-.00030	.07240	.08290	.57200
.601	1.370	9.87000	.16390	.08220	.26530	.00570	-.00140	.00060	.16190	.08610	1.88100
.602	2.490	11.01000	.27830	.07930	.24930	.00650	-.00190	.00060	.27450	.09130	3.10700
.601	3.590	12.13000	.38310	.07590	.23780	.00720	-.00170	.00100	.37760	.09980	3.78600
.602	4.720	13.28000	.49560	.07070	.22220	.00810	-.00190	.00110	.48810	.11120	4.38800
.601	5.770	14.35000	.58180	.06620	.20580	.01100	-.00220	.00070	.57220	.12430	4.60200
.599	6.860	15.45000	.68940	.05990	.19120	.00960	-.00220	.00210	.67730	.14180	4.77600
GRADIENT		1.01999	.09751	-.00074	-.01585	.00043	.00010	.00016	.09599	.00272	.96954

REPRODUCIBILITY OF THE
 ORIGINAL PAGE IS POOR

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TABULATED SOURCE DATA - CA23A

ARC14-080-1 CA23 747/1 01 AT1 (MATED)

PAGE 48

(RES045) (05 MAY 75)

PARAMETRIC DATA

REFERENCE DATA

SREF = 5500.0000 SQ.FT. XMRP = 1339.9000 IN. XC
 .REF = 327.7800 IN. YMRP = .0000 IN. YC
 ZMRP = 190.7500 IN. ZC
 SCALE = .0125

BETAC = .000 STAB-C = -1.000
 RUD-C = .000
 ELV-O = .000
 RUD-O = .000 I-ORB = 4.000

RUN NO. 45/ 0 RN/L = 3.43 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAC	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.600	-3.150	1.15000	-32920	.07340	.25500	.00320	-.00130	.00010	-.32470	.09140	-3.55400
.601	-2.050	2.27000	-22370	.07540	.23220	.00720	-.00100	-.00030	-.22090	.08330	-2.65100
.601	-.960	3.38000	-11350	.07700	.20940	.00530	-.00050	-.00050	-.11220	.07890	-1.42200
.602	1.280	4.49000	-.00800	.07780	.18810	.00910	-.00070	.00070	-.00820	.07780	-.10500
.601	2.370	5.66000	.10210	.07700	.17190	.00740	-.00060	.00060	.10040	.07920	1.26700
.602	3.490	7.90000	.32220	.06300	.14950	.00770	-.00070	.00110	.21470	.08150	2.63600
.603	4.570	9.01000	.42120	.05730	.12930	.01050	-.00050	.00030	.31760	.08550	3.71500
.602	5.660	10.11000	.52400	.04730	.11000	.01020	-.00050	.00100	.41530	.09070	4.57900
.601	6.740	11.21000	.62170	.03650	.09200	.01200	-.00070	.00090	.51670	.09870	5.23400
	GRADIENT	1.01734	.09794	-.00187	-.01857	.00056	.00007	.00017	.09650	.10930	5.61000
										.00017	1.10178

(RES046) (05 MAY 75)

PARAMETRIC DATA

REFERENCE DATA

SREF = 5500.0000 SQ.FT. XMRP = 1339.9000 IN. XC
 .REF = 327.7800 IN. YMRP = .0000 IN. YC
 ZMRP = 190.7500 IN. ZC
 SCALE = .0125

BETAC = .000 STAB-C = 5.000
 RUD-C = .000
 ELV-O = .000
 RUD-O = .000 I-ORB = 4.000

RUN NO. 46/ 0 RN/L = 3.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAC	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.598	-3.230	1.08000	-26090	.07510	-.07220	.00470	-.00070	.00030	-.25630	.08970	-2.85600
.596	-1.790	2.54000	-.08280	.09590	.06820	.00390	-.00070	-.00020	.08570	.09320	-.91900
.595	-1.010	3.33000	-.03850	.07940	-.11910	.00690	-.00040	.00090	-.03710	.08010	-.46300
.596	.090	4.44000	.07250	.08000	-.13850	.00880	-.00040	.00060	.07240	.08020	.90400
.597	1.180	5.56000	.17180	.07880	-.15920	.01040	-.00030	.00130	.17020	.08240	2.06600
.596	2.270	6.66000	.28580	.07500	-.18020	.00780	-.00010	.00080	.28260	.08630	3.27600
.595	3.400	7.81000	.39550	.06920	-.19810	.00650	-.00010	.00090	.39070	.09250	4.22300
.596	4.470	8.90000	.49370	.06110	-.21630	.01130	-.00010	.00110	.48740	.09940	4.90500
.595	5.560	10.00000	.59350	.05080	-.23030	.00880	-.00010	.00180	.59580	.10800	5.42300
.595	6.650	11.12000	.68970	.04040	-.24410	.01010	.00010	.00180	.67940	.11990	5.66500
.594	GRADIENT	1.01565	.06821	-.00262	-.02718	.00080	.00009	.00012	.08678	.00099	.92731

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TABELLATED SOURCE DATA - CA23A

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ARC14-080-1 CA23 747/1 01 AT1 (MATED)

(RES047) (05 MAY 75)

REFERENCE DATA

XREF = 5500.0000 SQ.FT. XMRP = 1339.9000 IN. XC
 YREF = 327.7800 IN. YMRP = .0000 IN. YC
 ZREF = 2348.0400 IN. ZMRP = 190.7500 IN. ZC
 SCALE = .0125

PARAMETRIC DATA

BETAC = .000 STAB-C = 5.000
 RUD-C = .000 BETAO = .000
 ELV-O = 5.000 AIL-O = .000
 RUD-O = .000 1-ORB = 4.000

RUN NO. 47/ 0 RN/L = 3.52 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAC	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.602	-3.190	1.15000	-22820	.07720	-.04420	.00500	-.00070	-.00010	-.22350	.08980	-2.45800
.602	-2.090	2.27000	-12410	.07880	-.06760	.00520	-.00060	.00040	-.12110	.08320	-1.45500
.601	-.940	3.44000	-.00040	.08110	-.09560	.00780	-.00070	.00100	.00090	.08110	.01100
.600	.150	4.54000	.11090	.08240	-.11710	.00850	-.00050	.00110	.11050	.08270	1.33800
.600	1.250	5.66000	.21550	.08100	-.14050	.00850	-.00040	.00130	.21470	.08570	2.50500
.601	2.350	6.78000	.32550	.07710	-.16220	.00890	-.00030	.00050	.32210	.09040	3.56200
.601	3.420	7.86000	.42350	.07100	-.18360	.00940	-.00010	.00140	.41850	.09610	4.35600
.599	4.510	8.97000	.52470	.06340	-.20180	.00810	.00000	.00090	.51810	.10440	4.96200
.600	5.630	10.11000	.63320	.05210	-.22160	.00930	-.00010	.00170	.62500	.11390	5.48500
.600	6.700	11.20000	.72210	.04260	-.23130	.00910	.00010	.00210	.71220	.12660	5.62800
.600	GRADIENT	1.01525	.09839	-.00160	-.02063	.00045	.00009	.00012	.09693	.00212	1.00729

ARC14-080-1 CA23 747/1 01 AT1 (MATED)

(RES048) (05 MAY 75)

REFERENCE DATA

XREF = 5500.0000 SQ.FT. XMRP = 1339.9000 IN. XC
 YREF = 327.7800 IN. YMRP = .0000 IN. YC
 ZREF = 2348.0400 IN. ZMRP = 190.7500 IN. ZC
 SCALE = .0125

PARAMETRIC DATA

BETAC = .000 STAB-C = 5.000
 RUD-C = .000 BETAO = .000
 ELV-O = 5.000 AIL-O = .000
 RUD-O = .000 1-ORB = 4.000

RUN NO. 48/ 0 RN/L = 3.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAC	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.503	-3.180	1.16000	-.22200	.07870	-.03920	.02940	-.01600	.00290	-.21730	.09090	-2.38900
.601	-2.090	2.26000	-.11280	.08050	-.06710	.03110	-.01590	.00310	-.10970	.08450	-1.29700
.601	-.980	3.39000	-.00470	.08260	-.08950	.03610	-.01590	.00350	-.00320	.06270	-.03900
.601	.140	4.53000	.09660	.08290	-.11460	.03480	-.01560	.00300	.09640	.08310	1.15900
.601	1.210	5.62000	.20630	.08170	-.13610	.03690	-.01580	.00350	.20460	.08600	2.37800
.600	2.320	6.75000	.31290	.07820	-.15800	.03600	-.01580	.00390	.30950	.09090	3.40700
.600	3.440	7.88000	.43320	.07270	-.17810	.03570	-.01570	.00380	.42800	.09650	4.34400
.600	4.530	8.99000	.52290	.06430	-.19950	.03660	-.01580	.00410	.51620	.10530	4.90000
.600	5.600	10.08000	.62350	.05480	-.21590	.03470	-.01560	.00370	.61520	.11540	5.33000
.600	6.710	11.21000	.72490	.04310	-.23400	.03770	-.01570	.00410	.71490	.12740	5.61000
.600	GRADIENT	1.01609	.09728	-.00167	-.02056	.00081	.00003	.00015	.09579	.00214	.98047

(RE9049) (05 MAY 75)

TABULATED SOURCE DATA - CA23A
ARC14-080-1 CA23 747/1 01 AT1 (MATED)

DATE 13 NOV 75

PARAMETRIC DATA

BETAC = .000 STAB-C = -1.000
RUD-C = .000 BETAO = .000
ELV-O = 5.000 AIL-O = .000
RUD-O = .000 I-ORR = 4.000

REFERENCE DATA

SREF = 5500.0000 SQ.FT. XMRP = 1339.9000 IN. XC
LREF = 327.7800 IN. YMRP = 0.0000 IN. YC
BREF = 2348.0400 IN. ZMRP = 190.7500 IN. ZC
SCALE = .0125

GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAC	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.597	-3.130	1.21000	-29790	.07430	.27840	.00600	-.00110	.00090	-.29340	.09050	-3.24300
.600	-2.020	2.34000	-19450	.07620	.25700	.00720	-.00100	.00030	-.19170	.08300	-2.30900
.604	-.900	3.48000	-08890	.07810	.23740	.00620	-.00060	-.00050	-.08770	.07950	-1.10300
.603	.220	4.61000	.02900	.07910	.21630	.00630	-.00040	.00060	.02870	.07920	1.36200
.601	1.320	5.73000	.13730	.07810	.19630	.00910	-.00080	.00060	.13550	.08120	1.66700
.603	2.450	6.86000	.24620	.07400	.17670	.00890	-.00050	.00110	.24280	.08450	2.87300
.603	3.540	7.99000	.35450	.06670	.15250	.01350	-.00080	.00050	.34970	.08840	3.95400
.603	4.600	9.06000	.45370	.05810	.13310	.01210	-.00080	.00120	.44760	.09420	4.75000
.603	5.650	10.14000	.54130	.04860	.11400	.01070	-.00080	.00170	.53390	.10160	5.25300
.603	6.770	11.27000	.64740	.03820	.09850	.01000	-.00040	.00220	.63840	.11430	5.58600
.603	GRADIENT	1.01569	.69800	-.00186	-.01871	.00091	.00003	.00008	.09663	.00074	1.08030

(RE9050) (05 MAY 75)

ARC14-080-1 CA23 747/1 01 AT1 (MATED)

PARAMETRIC DATA

BETAC = .000 STAB-C = -1.000
RUD-C = .000 BETAO = .000
ELV-O = 10.000 AIL-O = .000
RUD-O = .000 I-ORR = 4.000

REFERENCE DATA

SREF = 5500.0000 SQ.FT. XMRP = 1339.9000 IN. XC
LREF = 327.7800 IN. YMRP = 0.0000 IN. YC
BREF = 2348.0400 IN. ZMRP = 190.7500 IN. ZC
SCALE = .0125

GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAC	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.603	-3.060	1.31000	-26380	.07810	.30610	.00790	-.00140	.00060	-.25930	.09200	-2.81700
.601	-1.970	2.42000	-15630	.08000	.28430	.00640	-.00130	.00000	-.15350	.08540	-1.79800
.604	-.880	3.52000	-.05060	.08160	.25560	.00870	-.00120	.00010	-.04930	.08230	-1.59900
.604	.280	4.71000	.06050	.08260	.23780	.00850	-.00100	.00020	.06010	.08290	1.72500
.604	1.380	5.82000	.17080	.08050	.21510	.00960	-.00090	.00100	.16880	.08460	3.12800
.604	2.480	6.94000	.28060	.07650	.19550	.00890	-.00090	.00090	.27700	.08860	4.13900
.604	3.620	8.10000	.39190	.06880	.17450	.01480	-.00150	.00160	.38680	.09340	4.80300
.603	4.690	9.19000	.49070	.06090	.15450	.01240	-.00100	.00140	.48410	.10080	5.24500
.603	5.700	10.22000	.57490	.05120	.13540	.01100	-.00100	.00170	.56700	.10810	5.50500
.604	6.810	11.34000	.67920	.04140	.12300	.01220	-.00090	.00170	.66950	.12160	5.24500
.603	GRADIENT	1.01660	.03774	-.00207	-.01541	.00081	.00003	.00026	.09631	.00131	1.02268

DATE 13 NOV 75

TABULATED SOURCE DATA - CA23A

PAGE 51

ARC14-080-1 CA23 747/1 01 AT1 (MATED)

(RES051) (05 MAY 75)

REFERENCE DATA

SREF = 5500.0000 SQ.FT. XMRP = 1339.9000 IN. XC
 LREF = 327.7800 IN. YMRP = .0000 IN. YC
 BREF = 2348.0400 IN. ZMRP = 190.7500 IN. ZC
 SCALE = .0125

BETAC =
 RUD-C =
 ELV-O =
 RUD-O =

STAB-C = 5.000
 BETAO = .000
 AIL-O = .000
 1-OR8 = 4.000

RUN NO. 51/ 0 RN/L = 3.44 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAC	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.598	-3.150	1.22000	-.18310	.09110	-.01980	.00560	-.00120	.00050	-.17830	.09100	-1.95900
.602	-2.100	2.28000	-.09120	.08350	-.04470	.00770	-.00110	.00080	-.08810	.08680	-1.01500
.603	-1.000	3.40000	.02250	.08500	-.07090	.01040	-.00100	.00020	.02400	.08480	.28400
.601	.110	4.52000	.13130	.08610	-.09260	.01100	-.00090	.00090	.13110	.08630	1.51900
.601	1.240	5.68000	.24090	.08550	-.11020	.01000	-.00070	.00090	.23900	.09070	2.63500
.601	2.380	6.54000	.35480	.07990	-.13580	.00940	-.00080	.00060	.35120	.09460	3.71300
.601	3.430	7.91000	.45450	.07500	-.15460	.01130	-.00070	.00150	.44920	.10210	4.39800
.601	4.530	9.02000	.56050	.06630	-.17500	.01320	-.00080	.00090	.55350	.11030	5.01700
.602	5.640	10.16000	.66600	.05490	-.20000	.01140	-.00070	.00130	.65740	.12010	5.47400
.602	6.710	11.25000	.75860	.04640	-.21340	.01100	-.00070	.00170	.74800	.13480	5.55000
.603	GRADIENT	1.01673	.09755	-.00175	-.01994	.00072	-.00006	.00008	.09602	.00266	.94223

ARC14-080-1 CA23 747/1 01 AT1 (MATED)

(RES052) (05 MAY 75)

REFERENCE DATA

SREF = 5500.0000 SQ.FT. XMRP = 1339.9000 IN. XC
 LREF = 327.7800 IN. YMRP = .0000 IN. YC
 BREF = 2348.0400 IN. ZMRP = 190.7500 IN. ZC
 SCALE = .0125

BETAC =
 RUD-C =
 ELV-O =
 RUD-O =

STAB-C = 5.000
 BETAO = .000
 AIL-O = .000
 1-OR8 = 4.000

RUN NO. 52/ 0 RN/L = 3.44 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAC	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.602	-2.110	2.23000	-.11750	.08410	-.06980	.01560	-.00430	-.00210	-.11430	.08840	-1.29300
.601	.100	4.48000	.10110	.08640	-.11530	.01590	-.00340	-.00080	.10100	.08660	1.16600
.601	2.340	6.75000	.31760	.08110	-.15270	.01520	-.00310	-.00160	.31410	.09400	3.34100
.603	4.480	8.93000	.51250	.06810	-.18090	.01600	-.00320	-.00150	.51060	.10830	4.71600
.603	6.730	11.23000	.72060	.04730	-.21180	.01390	-.00240	-.00100	.71000	.13140	5.40200
	GRADIENT	1.01635	.09640	-.00241	-.01685	.00002	.00016	.00005	.09487	.00304	.91870

REPRODUCIBILITY OF THE
 ORIGINAL PAGE IS POOR

DATE 13 NOV 75

TABULATED SOURCE DATA - CA23A

ARC14-080-1 CA23 747/11-S1-S12101 AT1(MATED)

(RES053) (05 MAY 75)

PARAMETRIC DATA

BETAC = .000 STAB-C = 5.000
 RUD-C = .000 BETAO = .000
 ELV-O = 5.000 AIL-O = .000
 RUD-O = .000 I-ORR = 6.000

REFERENCE DATA

SREF = 5500.0000 SQ.FT. XMRP = 1339.9000 IN. XC
 LREF = 327.7800 IN. YMRP = .0000 IN. YC
 BREF = 2348.0400 IN. ZMRP = 190.7500 IN. ZC
 SCALE = .0125

GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAC	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.600	-3.040	3.43000	-.05620	.06960	-.02520	.00720	-.00090	-.00040	-.05250	.07250	-.72400
.602	-1.890	4.60000	.08150	.07220	-.05080	.00830	-.00070	.00060	.06390	.07020	.91000
.601	-1.790	5.72000	.16310	.07290	-.05350	.01050	-.00090	.00010	.16410	.07060	2.32400
.602	-1.330	6.82000	.27240	.07250	-.08300	.00840	-.00060	.00070	.27200	.07400	3.67500
.601	1.400	7.95000	.37900	.06930	-.10380	.00890	-.00030	.00040	.37720	.07850	4.80200
.602	2.500	9.07000	.48520	.06410	-.13350	.00690	-.00050	.00130	.48190	.08520	5.65400
.602	3.600	10.19000	.58940	.05710	-.15790	.01140	-.00090	.00090	.58360	.09390	6.21200
.602	4.700	11.31000	.69280	.04760	-.17910	.01190	-.00090	.00160	.68650	.10420	6.59000
.602	5.770	12.40000	.78980	.03760	-.19080	.01110	-.00080	.00110	.78200	.11670	6.69800
.602	6.900	13.55000	.87820	.03130	-.19770	.01240	-.00060	.00250	.86810	.13650	6.36000
.602	GRADIENT	1.01825	.09669	-.00279	-.01963	.00048	.00000	.00020	.09539	.00419	.96038

(RES054) (05 MAY 75)

ARC14-080-1 CA23 747/11-S1-S12101 AT1(MATED)

PARAMETRIC DATA

BETAC = .000 STAB-C = 5.000
 RUD-C = .000 BETAO = .000
 ELV-O = 5.000 AIL-O = .000
 RUD-O = .000 I-ORR = 8.000

REFERENCE DATA

SREF = 5500.0000 SQ.FT. XMRP = 1339.9000 IN. XC
 LREF = 327.7800 IN. YMRP = .0000 IN. YC
 BREF = 2348.0400 IN. ZMRP = 190.7500 IN. ZC
 SCALE = .0125

GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAC	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.596	-2.920	5.51000	-.03180	.07230	.04210	.00680	-.00130	-.00040	-.02810	.07380	-.38000
.604	-1.870	6.59000	.07150	.07480	.01470	.00890	-.00120	.00100	.07390	.07240	1.02100
.603	-1.760	7.72000	.18730	.07690	-.00930	.00760	-.00120	.00080	.18830	.07440	2.53100
.600	.340	8.84000	.28870	.07680	-.02990	.00960	-.00120	.00040	.28830	.07850	3.67100
.600	1.490	10.01000	.40480	.07450	-.05410	.00950	-.00110	.00100	.40270	.08500	4.74000
.600	2.570	11.11000	.51480	.06950	-.06930	.00820	-.00120	.00070	.51120	.09250	5.52700
.601	3.700	12.27000	.62520	.06400	-.08370	.01180	-.00140	.00080	.61970	.10430	5.94300
.602	4.780	13.37000	.71700	.05650	-.10140	.01000	-.00120	.00170	.70980	.11600	6.11700
.602	5.830	14.45000	.81140	.04990	-.11950	.01310	-.00130	.00200	.80210	.13210	6.07200
.602	6.950	15.58000	.90410	.04840	-.13540	.01340	-.00160	.00190	.89160	.15740	5.66500
.602	GRADIENT	1.02013	.09806	-.00204	-.01830	.00040	-.00000	.00015	.09665	.00556	.86234

DATE 13 NOV 75

TABULATED SOURCE DATA - CA23A

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(RES055) (05 MAY 75)

ARC14-080-1 CA23 747/1(-S1-S12)05 AT(I)MATED)

REFERENCE DATA

SREF = 5500.0000 SQ.FT. XMRP = 1339.9000 IN. XC
 LREF = 327.7800 IN. YMRP = .0000 IN. YC
 BREF = 2348.0400 IN. ZMRP = 190.7500 IN. ZC
 SCALE = .0125

MACH ALPHA ALPHAC CN CA CLM CY CYN CBL L/D
 .604 -1.830 6.62700 .07620 .0930 .00950 -.00140 .00120 1.08700
 .602 .340 8.83000 .29410 .03110 .00800 -.00080 .00180 3.73700
 .603 2.610 11.15000 .51760 .07010 .03970 -.00130 .00030 5.48900
 .603 4.820 13.41000 .71220 .10430 .00950 -.00130 .00050 6.08100
 .603 6.960 15.60000 .90530 .13920 .01130 -.00150 .00150 5.63200
 GRADIENT 1.22116 .09592 -.00281 -.01704 .00008 -.00001 -.00016 .00658 .75231

RUN NO. 55/ 0 RN/L = 3.47 GRADIENT INTERVAL = -5.00/ 5.00

PARAMETRIC DATA

BETAC = .000 STAB-C = 5.000
 RUO-C = .000 BETAO = .000
 ELV-O = 5.000 AIL-O = .000
 RUO-O = .000 I-ORB = 8.000

CL CO CL L/D
 .07650 .07220 .07650 1.08700
 .29360 .07660 .29360 3.73700
 .51390 .09360 .51390 5.48900
 .70500 .11590 .70500 6.08100
 .89280 .15800 .89280 5.63200
 .09450 .00658 .09450 .75231

ARC14-080-1 CA23 747/1(-S1-S12)03 AT(I)MATED)

(RES056) (05 MAY 75)

REFERENCE DATA

SREF = 5500.0000 SQ.FT. XMRP = 1339.9000 IN. XC
 LREF = 327.7800 IN. YMRP = .0000 IN. YC
 BREF = 2348.0400 IN. ZMRP = 190.7500 IN. ZC
 SCALE = .0125

MACH ALPHA ALPHAC CN CA CLM CY CYN CBL L/D
 .590 1.41000 1.41000 .13050 .23450 .00340 -.00220 .00020 -2.24000
 .590 -2.930 -1.840 .02530 .21820 .00390 -.00210 .00100 -1.44300
 .591 .360 .760 .07510 .20210 .00640 -.00210 .00080 1.43500
 .590 4.75000 .18430 .18730 .00500 -.00180 .00120 .00080 3.34600
 .590 5.85000 .29510 .16300 .00840 -.00210 .00120 .00110 5.16800
 .590 6.96000 .40210 .14170 .00920 -.00210 .00120 .00190 6.55200
 .589 8.08000 .49910 .12560 .00890 -.00220 .00160 .00140 7.40300
 .588 9.18000 3.640 8.08000 .10240 .01140 .00220 .00160 8.00200
 .588 10.29000 4.730 9.18000 .08620 .01070 .00200 .00250 8.16200
 .588 6.920 5.810 10.29000 .07330 .01090 .00190 .00250 7.63700
 GRADIENT 1.01500 .09566 -.00325 -.01748 .00001 .00013 .00476 .00233 1.39228

RUN NO. 56/ 0 RN/L = 3.33 GRADIENT INTERVAL = -5.00/ 5.00

PARAMETRIC DATA

BETAC = .000 STAB-C = -1.000
 RUO-C = .000 BETAO = .000
 ELV-O = 5.000 AIL-O = .000
 RUO-O = .000 I-ORB = 4.000

CL CO CL L/D
 -.12780 .05700 -.12780 -2.24000
 -.02360 .05330 -.02360 -1.44300
 .07590 .05280 .07590 1.43500
 .16400 .05500 .16400 3.34600
 .29370 .05680 .29370 5.16800
 .39980 .06100 .39980 6.55200
 .49580 .06700 .49580 7.40300
 .59220 .07400 .59220 8.00200
 .68880 .08440 .68880 8.16200
 .78030 .10220 .78030 7.63700
 .09476 .00233 .09476 1.39228

DATE 13 NOV 75

TABULATED SOURCE DATA - CA23A

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ARC14-080-1 CA23 747/1 03 AT1 (MATED)

(RES057) (05 MAY 75)

REFERENCE DATA

SREF = 5500.0000 SQ.FT. XMRP = 1339.9000 IN. XC
 LREF = 327.7800 IN. YMRP = .0000 IN. YC
 BRPF = 2348.0400 IN. ZMRP = 190.7500 IN. ZC
 SCALE = .0125

PARAMETRIC DATA

BETAC = .000 STAB-C = -1.000
 RUD-C = .000 BETAO = .000
 ELV-O = 5.000 AIL-O = .000
 RUD-O = .000 I-ORR = 4.000

RUN NO. 57/ 0 RN/L = 3.41 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAC	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.591	-3.080	1.27000	-1.28120	.06020	.27250	.00450	-.00230	.00030	-.27760	.07520	-3.69100
.589	-1.990	2.37000	-1.7970	.06250	.25410	.00650	-.00240	.00030	-.17740	.06870	-2.58300
.589	-.870	3.51000	-.06940	.06420	.23260	.00470	-.00200	.00050	-.06840	.06520	-1.04900
.589	.210	4.61000	.03430	.06550	.21780	.00770	-.00200	.00120	.03410	.06560	.51900
.530	1.320	5.74000	.14570	.06320	.19580	.00670	-.00190	.00050	.14420	.06660	2.16500
.589	2.430	6.57000	.26060	.05900	.17510	.01070	-.00230	.00140	.25790	.07000	3.68600
.589	3.520	7.97000	.36190	.05240	.15590	.01020	-.00200	.00050	.35800	.07450	4.80500
.588	4.610	9.08000	.46430	.04350	.13560	.01310	-.00240	.00170	.45330	.08070	5.69200
.589	5.690	10.18000	.55350	.03650	.12350	.01030	-.00210	.00090	.54710	.09120	6.00000
.586	6.790	11.29000	.66530	.02230	.10130	.01160	-.00230	.00190	.65800	.10080	6.52700
	GRADIENT	1.01613	.09772	-.00200	-.01778	.00103	.00001	.00014	.09660	.00090	1.28247

ARC14-080-1 CA23 747/1(-51-512)03 AT1(MATED)

(RES058) (05 MAY 75)

REFERENCE DATA

SREF = 5500.0000 SQ.FT. XMRP = 1339.9000 IN. XC
 LREF = 327.7800 IN. YMRP = .0000 IN. YC
 BRPF = 2348.0400 IN. ZMRP = 190.7500 IN. ZC
 SCALE = .0125

PARAMETRIC DATA

BETAC = .000 STAB-C = -1.000
 RUD-C = .000 BETAO = .000
 ELV-O = .000 AIL-O = .000
 RUD-O = .000 I-ORR = 4.000

RUN NO. 58/ 0 RN/L = 3.43 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAC	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.595	-3.020	1.29000	-1.18310	.04950	.22150	.00350	-.00120	.00050	-.18030	.05900	-3.05400
.593	-1.890	2.47000	-.05920	.05280	.20060	.00610	-.00120	.00100	-.05740	.05470	-1.04900
.593	-.780	3.55000	.04400	.05360	.18080	.00560	-.00100	.00030	.04470	.05290	.84500
.592	.320	4.68000	.15500	.05230	.16320	.00700	-.00110	.00040	.15470	.05320	2.90700
.590	1.450	5.62000	.26200	.04950	.14260	.00890	-.00120	.00100	.26070	.05610	4.64600
.590	2.530	6.91000	.36780	.04350	.12420	.00890	-.00130	.00150	.36550	.05970	6.12600
.590	3.630	8.04000	.46410	.03570	.10470	.01080	-.00140	.00150	.46090	.06500	7.08900
.591	4.710	9.13000	.56450	.02410	.08100	.00880	-.00130	.00140	.56060	.07040	7.96600
.591	5.770	10.21000	.66420	.01290	.06390	.00930	-.00130	.00220	.65950	.07960	8.28100
.590	6.850	11.32000	.74840	.00600	.05410	.00800	-.00110	.00250	.74230	.09530	7.78800
	GRADIENT	1.01487	.09625	-.00318	-.01783	.00078	-.00003	.00014	.09537	.00166	1.46073

(RES061) (05 MAY 75)

TABULATED SOURCE DATA - CA23A
ARC14-080-1 CA23 747/1 03 AT1 (MATED)

DATE 13 NOV 75

PARAMETRIC DATA

REFERENCE DATA

BETAC = -5.000 STAB-C = -1.000
RUD-C = .000 BETAO = -5.000
ELV-O = .000 AIL-O = .000
RUD-O = .000 I-ORB = 4.000

SREF = 5500.0000 SQ.FT. XMRP = 1339.9000 IN. XC
LREF = 327.7800 IN. YMRP = .0000 IN. YC
BREF = 2348.0400 IN. ZMRP = 190.7500 IN. ZC
SCALE = .0125

RUN NO. 61/ 0 RN/L = 3.45 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAC	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.598	-3.110	1.21000	-2.7640	.05720	.21320	.15280	-.01020	.01480	-.27200	.07220	-3.78100
.597	-2.030	2.31000	-1.17540	.05920	.19310	.15610	-.01050	.01600	-.17350	.06340	-2.64800
.601	-.920	3.44000	-.06070	.06110	.17000	.15900	-.01020	.01690	-.05970	.06210	-.96300
.600	.180	4.55000	.04030	.06080	.14840	.15820	-.01000	.01770	.04010	.06090	.65900
.599	1.330	5.72000	.16010	.05830	.12170	.15990	-.01000	.01500	.15870	.06200	2.56200
.598	2.410	6.53000	.25820	.05340	.11290	.16160	-.01000	.02130	.25570	.06430	3.97900
.598	3.500	7.93000	.35690	.04620	.09270	.16180	-.01060	.02180	.35340	.06850	5.14800
.598	4.640	9.03000	.47840	.03610	.07200	.16190	-.01070	.02310	.47790	.07470	6.34300
.598	5.710	10.17000	.56630	.02600	.05810	.16280	-.01090	.02350	.56070	.08420	6.66300
.598	6.850	11.33000	.66580	.01870	.04500	.16300	-.01090	.02410	.65890	.09790	6.72800
.598	GRADIENT	1.01677	.09697	-.00253	-.01804	.00109	-.00004	.00109	.09594	.00045	1.36063

(RES082) (05 MAY 75)

ARC14-080-1 CA23 747/1 (-S1-S12103 AT1 (MATED)

PARAMETRIC DATA

REFERENCE DATA

BETAC = -5.000 STAB-C = -1.000
RUD-C = .000 BETAO = -5.000
ELV-O = .000 AIL-O = .000
RUD-O = .000 I-ORB = 4.000

SREF = 5500.0000 SQ.FT. XMRP = 1339.9000 IN. XC
LREF = 327.7800 IN. YMRP = .0000 IN. YC
BREF = 2348.0400 IN. ZMRP = 190.7500 IN. ZC
SCALE = .0125

RUN NO. 62/ 0 RN/L = 3.42 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAC	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.598	-3.040	1.27000	-1.14510	.04870	.18020	.15580	-.00990	.01680	-.14230	.05630	-2.52700
.598	-1.850	2.48000	-.03390	.05020	.15670	.15840	-.01000	.01750	-.03230	.05120	-.63000
.602	-.790	3.56000	.06870	.05030	.13820	.15850	-.00590	.01800	.06940	.04930	1.40700
.600	.230	4.66000	.16080	.04830	.11470	.16020	-.00980	.01990	.18050	.04920	3.66700
.597	1.430	5.81000	.27960	.04570	.10030	.16080	-.01010	.02030	.27830	.05250	5.29100
.599	2.580	6.93000	.39740	.03870	.08050	.16290	-.01050	.02150	.39530	.05360	6.98000
.601	3.680	8.10000	.49550	.03020	.05050	.16250	-.01100	.02270	.49250	.06190	7.95500
.601	4.720	9.16000	.59790	.02050	.04300	.16510	-.01160	.02490	.58420	.06880	8.49100
.601	5.790	10.24000	.67610	.01100	.03300	.16440	-.01170	.02570	.67150	.07910	8.48700
.601	6.940	11.41000	.77670	.00220	.01960	.16420	-.01130	.02700	.77070	.09600	8.03200
.602	GRADIENT	1.01663	.09508	-.00358	-.01747	.00107	-.00020	.00100	.09424	.00178	1.48537

DATE 13 NOV 75

TABULATED SOURCE DATA - CA23A

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ARC14-080-1 CA23 747/1(-S1-S12101 AT1(MATED)

(RES083) (05 MAY 75)

REFERENCE DATA

SREF = 5500.0000 SQ.FT. XMRP = 1339.9000 IN. XC
 LREF = 327.7800 IN. YMRP = .0000 IN. YC
 BREF = 2348.0400 IN. ZMRP = 190.7500 IN. ZC
 SCALE = .0125

BETAC = -5.000 STAB-C = 5.000
 RUJ-C = .000 BETAO = -5.000
 ELV-O = 5.000 AIL-O = .000
 RUJ-O = .000 I-ORR = 8.000

PARAMETRIC DATA

RUN NO. 63/ 0 RN/L = 3.42 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAC	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.595	-2.980	3.47000	-.00730	.07370	-.00340	.15190	-.00880	.01730	-.00350	.07400	-.04700
.597	-1.820	6.65000	.10890	.07680	-.03130	.15840	-.00920	.01830	.11130	.07330	1.51800
.598	-.740	7.75000	.21350	.07710	-.05280	.16060	-.00910	.02060	.21450	.07440	2.88400
.596	.330	8.90000	.32460	.07770	-.06310	.16200	-.00920	.02060	.32400	.07990	4.05700
.596	1.490	10.02000	.42760	.07500	-.08830	.16480	-.00970	.02230	.42550	.08610	4.94500
.597	2.550	11.00000	.52440	.06920	-.10850	.16680	-.01030	.02330	.52080	.09250	5.63300
.596	3.670	12.24000	.63070	.06440	-.12520	.17010	-.01060	.02460	.63060	.10500	6.00500
.600	4.790	13.38000	.72520	.06000	-.13880	.16930	-.01070	.02580	.71770	.12030	5.96400
.598	5.860	14.47000	.81520	.05340	-.14790	.17200	-.01050	.02530	.80540	.13630	5.90800
.597	6.990	15.62000	.91140	.04940	-.15040	.17050	-.00990	.02660	.89860	.16000	5.61700
GRADIENT		1.01810	.09481	-.00198	-.01722	.00218	-.00026	.00109	.09337	.00585	.79414

ARC14-080-1 CA23 747/1(-S1-S12101 AT1(MATED)

(RES084) (05 MAY 75)

REFERENCE DATA

SREF = 5500.0000 SQ.FT. XMRP = 1339.9000 IN. XC
 LREF = 327.7800 IN. YMRP = .0000 IN. YC
 BREF = 2348.0400 IN. ZMRP = 190.7500 IN. ZC
 SCALE = .0125

BETAC = -5.000 STAB-C = 5.000
 RUJ-C = .000 BETAO = -5.000
 ELV-O = 5.000 AIL-O = .000
 RUJ-O = .000 I-ORR = 6.000

PARAMETRIC DATA

RUN NO. 64/ 0 RN/L = 3.45 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAC	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.596	-3.000	3.49000	-.02180	.06900	-.05890	.15750	-.00920	.01660	-.01820	.07010	-.25900
.595	-1.920	4.59000	.08890	.07080	-.08090	.15930	-.00930	.01910	.07130	.06850	1.04000
.593	-.770	5.75000	.18660	.07220	-.10350	.16190	-.00920	.01890	.18760	.06970	2.69200
.593	.340	6.88000	.29480	.07090	-.12400	.16110	-.00950	.01980	.29440	.07260	4.05600
.593	1.410	7.96000	.39270	.06750	-.13970	.16000	-.00950	.02150	.39100	.07710	5.07000
.593	2.550	9.13000	.50900	.06230	-.16110	.16360	-.00990	.02180	.50570	.08490	5.95700
.592	3.640	10.23000	.60420	.05510	-.17860	.16270	-.01000	.02390	.59950	.09330	6.42600
.592	4.740	11.35000	.70680	.04570	-.19520	.16740	-.01030	.02470	.70060	.10400	6.73300
.591	5.820	12.46000	.80160	.03710	-.20880	.17040	-.01080	.02570	.79360	.11830	6.71200
.590	6.930	13.58000	.89330	.02950	-.21810	.16860	-.01020	.02730	.88920	.13770	6.45600
GRADIENT		1.01613	.09507	-.00295	-.01761	.00097	-.00014	.00103	.09380	.00442	.93251

DATE 13 NOV 75

TABULATED SOURCE DATA - CA23A

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ARC14-080-1 CA23 747/1 01 AT1 (MATED)

(RE9065) (05 MAY 75)

REFERENCE DATA

SREF = 5500.0000 SQ.FT. XMRP = 1339.9000 IN. XC
 LREF = 327.7800 IN. YMRP = .0000 IN. YC
 BREF = 2348.0400 IN. ZMRP = 190.7500 IN. ZC
 SCALE = .0125

RUN NO. 65/ 0 RN/L = 3.48 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAC	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.597	-3.120	3.38000	-1.5530	.07340	-.02700	.15070	-.00900	.01490	-.15080	.08770	-1.71900
.604	-1.970	4.54000	-.04940	.08160	-.04840	.15580	-.00890	.01520	-.04660	.08320	-.56000
.603	-.890	5.65000	.05900	.08340	-.07170	.15730	-.00890	.01630	.05020	.08250	.73000
.602	.200	6.76000	.15710	.08380	-.08880	.15930	-.00880	.01770	.15680	.08440	1.85800
.602	1.310	7.88000	.26820	.08700	-.10560	.15960	-.00890	.01870	.26630	.08810	3.02100
.601	2.420	9.00000	.36760	.07830	-.12750	.16190	-.00920	.02000	.36400	.09370	3.88400
.600	3.520	10.13000	.47980	.07140	-.14770	.16090	-.00970	.02060	.47450	.10070	4.71100
.601	4.650	11.28000	.58180	.06490	-.15950	.16590	-.01030	.02190	.57460	.11190	5.13500
.601	5.730	12.38000	.67940	.05780	-.17030	.16750	-.01020	.02330	.67020	.12530	5.34900
.602	6.860	13.52000	.78170	.05070	-.18260	.16900	-.01020	.02280	.77010	.14360	5.36200
	GRADIENT	1.01658	.09520	-.00183	-.01732	.00154	-.00015	.00095	.09371	.00317	.91439

PARAMETRIC DATA

BETAC = -5.000 STAB-C = 5.000
 RUD-C = .000 BETAO = -5.000
 ELV-O = 5.000 AIL-O = .000
 RUD-O = .000 I-ORB = 6.000

REFERENCE DATA

SREF = 5500.0000 SQ.FT. XMRP = 1339.9000 IN. XC
 LREF = 327.7800 IN. YMRP = .0000 IN. YC
 BREF = 2348.0400 IN. ZMRP = 190.7500 IN. ZC
 SCALE = .0125

RUN NO. 66/ 0 RN/L = 3.48 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAC	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.597	-3.160	1.19000	-1.8970	.07540	-.06970	.14920	-.00900	.01360	-.18530	.08590	-2.15900
.599	-2.040	2.33000	-.07240	.07810	-.09820	.15420	-.00900	.01480	-.06950	.08070	-.86200
.600	-.940	3.44000	.02950	.07950	-.12010	.15490	-.00870	.01560	.03090	.07900	.39000
.600	.160	4.56000	.12620	.08000	-.13520	.15630	-.00860	.01590	.12600	.08040	1.56800
.599	1.270	5.63000	.23660	.07810	-.15660	.15750	-.00880	.01710	.23480	.08340	2.81700
.599	2.390	6.80000	.34610	.07340	-.17590	.15670	-.00910	.01960	.34280	.08780	3.90600
.599	3.460	7.92000	.44860	.06730	-.19330	.15980	-.00950	.02030	.44380	.09430	4.70700
.598	4.530	9.07000	.55160	.05820	-.21410	.16170	-.00980	.02180	.54520	.10220	5.33400
.598	5.680	10.17000	.65440	.04930	-.22590	.16180	-.01010	.02210	.64630	.11440	5.65200
.599	6.790	11.30000	.75440	.04080	-.23850	.16150	-.00970	.02240	.74430	.12970	5.73900
	GRADIENT	1.01647	.09536	-.00209	-.01804	.00132	-.00010	.00106	.09396	.00228	.99190

PARAMETRIC DATA

BETAC = -5.000 STAB-C = 5.000
 RUD-C = .000 BETAO = -5.000
 ELV-O = 5.000 AIL-O = .000
 RUD-O = .000 I-ORB = 4.000

ARC14-080-1 CA23 747/1 01 AT1 (MATED)

(RE9066) (05 MAY 75)

TABULATED SOURCE DATA - CA23A
ARC14-080-1 CA23 747/1 01 AT1 (MATED)

DATE 13 NOV 75

REFERENCE DATA

SREF = 5500.000 SQ.FT. XMRP = 1339 9000 IN. XC
LREF = 327.7800 IN. YMRP = .0000 IN. YC
BREF = 2348.0400 IN. ZMRP = 190.7500 IN. ZC
SCALE = .0125

RUN NO. 67/ 0 RN/L = 3.47 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAC	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.595	-3.070	5.39000	-1.13650	.08410	.02990	.15320	-.00940	.01520	-.13180	.09130	-1.44300
.602	-1.930	6.55000	-.02330	.08650	-.00150	.15350	-.00890	.01630	-.02030	.08720	-.23300
.601	-.840	7.65000	.08540	.08920	-.01860	.15640	-.00870	.01740	.08670	.08790	.98600
.600	.260	8.77000	.18570	.08980	-.03810	.15920	-.00900	.01870	.18530	.09070	2.04400
.599	1.390	9.93000	.29870	.08940	-.05490	.16230	-.00940	.01910	.29640	.09660	3.06900
.597	2.460	11.12000	.39720	.08680	-.06760	.16290	-.01000	.02030	.39310	.10380	4.29300
.598	3.580	12.16000	.50450	.08470	-.09630	.16580	-.01050	.02100	.49820	.11600	4.60100
.598	4.632	13.29000	.60600	.08050	-.10160	.16660	-.01030	.02190	.59740	.12580	4.76100
.599	5.790	14.40000	.70140	.07470	-.10990	.16660	-.01040	.02250	.69030	.14500	4.77600
.598	6.880	15.51000	.79300	.06870	-.11560	.16980	-.01040	.02250	.77910	.16310	4.77600
	GRADIENT	1.01851	.09564	-.00045	-.01617	.00191	-.00021	.00081	.09394	.00502	.80062

ARC14-080-1 CA23 747/1 01 AT2 (MATED)

REFERENCE DATA

SREF = 5500.000 SQ.FT. XMRP = 1339 9000 IN. XC
LREF = 327.7800 IN. YMRP = .0000 IN. YC
BREF = 2348.0400 IN. ZMRP = 190.7500 IN. ZC
SCALE = .0125

RUN NO. 68/ 0 RN/L = 3.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAC	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.599	-3.110	3.37000	-.15940	.08200	-.02960	.14420	-.01270	.01530	-.15470	.09050	-1.70900
.601	-1.930	4.57000	-.04700	.08470	-.05340	.14720	-.01260	.01630	-.04410	.08620	-.51100
.599	-.860	5.66000	.08260	.08680	-.07620	.14930	-.01270	.01610	.06390	.08590	.74400
.597	.230	6.76000	.16510	.08730	-.09320	.14990	-.01270	.01800	.16470	.08790	1.87300
.603	1.370	7.92000	.27840	.08610	-.11060	.15120	-.01290	.01880	.27630	.09270	2.98100
.603	2.410	8.98000	.37520	.08210	-.13130	.15090	-.01310	.02020	.37140	.09780	3.79600
.601	3.540	10.13000	.49090	.07500	-.14930	.15220	-.01340	.02150	.48530	.10510	4.61700
.602	4.670	11.26000	.59230	.06750	-.16480	.15860	-.01390	.02270	.58340	.11560	5.06600
.602	5.730	12.36000	.69230	.05320	-.17920	.15900	-.01370	.02340	.68350	.12800	5.34100
.601	6.870	13.52000	.79200	.03320	-.18670	.16000	-.01370	.02340	.78300	.14790	5.29500
	GRADIENT	1.01649	.09710	-.00178	-.01733	.00143	-.00017	.00098	.09553	.00335	.89824

PARAMETRIC DATA

BETAC = -5.000 STAB-C = 5.000
RUO-C = .000 BETAO = -5.000
ELV-O = 5.000 AIL-O = .000
RUO-O = .000 I-ORR = 6.000

PARAMETRIC DATA

BETAC = -5.000 STAB-C = 5.000
RUO-C = .000 BETAO = -5.000
ELV-O = 5.000 AIL-O = .000
RUO-O = .000 I-ORR = 8.000

(RE9069) (05 MAY 75)

PARAMETRIC DATA

BETAC = -5.000 STAB-C = 5.000
 RUO-C = .000 BETAO = -5.000
 ELV-O = 5.000 AIL-O = .000
 RUO-O = .000 I-OAB = 6.000

REFERENCE DATA

SREF = 5500.0000 SQ.FT. XMRP = 1339.9000 IN. XC
 LREF = 327.7800 IN. YMRP = .0000 IN. YC
 BREF = 2348.0400 IN. ZMRP = 190.7500 IN. ZC
 SCALE = .0125

RUN NO. 69/ 0 RN/L = 3.43 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAC	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.598	-3.060	3.43000	-1.4900	.08130	-.02690	.14710	-.01190	.01530	-.14440	.08910	-1.62100
.599	-1.940	4.56000	-.04700	.08350	-.04950	.15010	-.01180	.01640	-.04410	.08540	-.51600
.601	-.870	5.66000	.05520	.08620	-.06970	.15210	-.01180	.01720	.05650	.08530	.66300
.602	.220	6.76000	.13250	.08630	-.09220	.15300	-.01180	.01810	.16220	.08690	1.86600
.602	1.340	7.91000	.27230	.08460	-.10890	.15370	-.01200	.01920	.27030	.09100	2.97100
.598	2.430	9.51000	.37520	.08070	-.12520	.15560	-.01240	.02100	.37140	.09660	3.84600
.599	3.520	10.12000	.47830	.07350	-.14240	.15790	-.01300	.02180	.47290	.10270	4.60400
.599	4.620	11.24000	.57610	.06760	-.15930	.15890	-.01300	.02340	.56880	.11380	4.99800
.600	5.710	12.35000	.68210	.05900	-.16900	.16220	-.01360	.02340	.67280	.12650	5.31700
.601	6.830	13.49000	.78500	.05220	-.18200	.16470	-.01350	.02340	.77320	.14520	5.32500
	GRADIENT	1.01727	.09526	-.00180	-.01684	.00144	-.00017	.00098	.09372	.00323	.89686

ARC14-080-1 CA23 747/1 01 AT3 (MATED)

(RE9070) (05 MAY 75)

PARAMETRIC DATA

BETAC = .000 STAB-C = 5.000
 RUO-C = .000 BETAO = .000
 ELV-O = 5.000 AIL-O = .000
 RUO-O = .000 I-OAB = 6.000

REFERENCE DATA

SREF = 5500.0000 SQ.FT. XMRP = 1339.9000 IN. XC
 LREF = 327.7800 IN. YMRP = .0000 IN. YC
 BREF = 2348.0400 IN. ZMRP = 190.7500 IN. ZC
 SCALE = .0125

RUN NO. 70/ 0 RN/L = 3.48 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAC	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.599	-2.840	3.65000	-1.5710	.08220	-.00070	.00260	-.00170	.00000	-.15280	.08990	-1.70100
.598	-1.770	4.73000	-.04920	.08430	-.01970	.00600	-.00180	.00070	-.04650	.08580	-.54200
.597	-.680	5.84000	.05130	.08580	-.04010	.00640	-.00160	.00010	.05230	.08520	.61400
.600	.420	6.96000	.16100	.08640	-.05780	.00850	-.00170	.00040	.16040	.08760	1.83000
.601	1.570	8.14000	.27970	.08400	-.07960	.00800	-.00150	.00070	.27730	.09160	3.02700
.599	2.660	9.24000	.38940	.08000	-.10400	.00970	-.00180	.00020	.38530	.09800	3.93200
.599	3.730	10.33000	.47940	.07400	-.12170	.00920	-.00170	.00030	.47360	.10500	4.50900
.599	4.820	11.44000	.59230	.06570	-.13830	.00790	-.00160	.00090	.58470	.11520	5.07500
.601	5.920	12.56000	.68800	.05710	-.15050	.01140	-.00220	.00050	.67840	.12780	5.31000
.599	7.040	13.71000	.79360	.04850	-.16030	.01470	-.00170	.00210	.78170	.14540	5.37700
	GRADIENT	1.01756	.09776	-.00202	-.01828	.00068	-.00001	.00013	.09622	.00342	.90878

DATE 13 NOV 75

TABULATED SOURCE DATA - CA23A

ARC14-080-1 CA23 747/1 01 AT2 (MATED)

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(RES071) (05 MAY 75)

REFERENCE DATA

SREF = 5500.0000 SQ.FT. XMRP = 1339.9000 IN. XC
LREF = 327.7800 IN. YMRP = .0000 IN. YC
BREF = 2348.0400 IN. ZMRP = 190.7500 IN. ZC
SCALE = .0125

PARAMETRIC DATA

BETAC = .000 STAB-C = 5.000
RUD-C = .000 BETAO = .000
ELV-O = 5.000 AIL-O = .000
RUD-O = .000 I-ORR = 6.000

RUN NO. 71/ 0 RN/L = 3.48 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAC	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.601	-2.850	3.63000	-1.19460	.08340	-.00190	.00850	-.00200	-.00090	-.15030	.09100	-1.65200
.600	-1.760	4.73000	-.04740	.08590	-.02150	.00840	-.00150	.00000	-.04470	.08730	-.51200
.598	-.670	5.85000	.06780	.08800	-.04520	.00950	-.00180	-.00010	.06980	.08720	.78900
.600	.420	6.96000	.15960	.08850	-.05830	.00750	-.00150	.00060	.15900	.08970	1.77200
.601	1.560	8.12000	.28930	.08630	-.08170	.00930	-.00170	-.00040	.28690	.09420	3.04500
.600	2.630	9.10000	.37730	.08230	-.10310	.01120	-.00150	.00040	.37320	.09560	3.74800
.600	3.730	10.32000	.49620	.07470	-.12900	.01180	-.00190	-.00010	.49030	.10680	4.59100
.601	4.810	11.43000	.58860	.06800	-.14270	.01100	-.00180	.00060	.58080	.11710	4.96000
.601	5.890	12.53000	.69030	.05860	-.15540	.01310	-.00190	.00170	.68860	.13000	5.29800
.601	7.000	13.66000	.80030	.05100	-.16120	.01350	-.00170	.00190	.78810	.14810	5.32000
	GRADIENT	1.01824	.09749	-.00199	-.01868	.00071	.00000	.00011	.09591	.00349	.88997

ARC14-080-1 CA23 045 (ORBITER ISOLATED)

(AES011) (05 MAY 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1109.0000 IN. XO
LREF = 474.8100 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

BETAO = .000 ELV-O = 5.000
AIL-O = .000 RUD-O = .000

RUN NO. 1/ 0 RN/L = 3.46 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CPC	CPB1	CPB2	CPB3
.600	.280	.00000	-.09140	-.16460	-.20780	-.19810
.598	1.490	-.01000	-.08450	-.14980	-.19480	-.19020
.602	1.720	-.01000	-.09130	-.16000	-.20620	-.20050
.599	2.920	-.02000	-.08730	-.15410	-.19200	-.18600
.604	4.170	-.02000	-.08310	-.14320	-.19660	-.18730
.600	5.220	-.02000	-.07100	-.13430	-.18950	-.17650
.600	6.570	.00000	-.08410	-.14650	-.20850	-.18700
.601	7.840	.02000	-.07240	-.13390	-.19410	-.17740
.602	8.950	-.02000	-.07580	-.13790	-.19200	-.17600
.599	9.970	-.02000	-.08170	-.14550	-.20560	-.18850
	GRADIENT	-.00534	.00182	.00470	.00305	.00318

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DATE 13 NOV 75 (AESAD2) (05 MAY 75)

TABULATED SOURCE DATA - CA23A
ARC14-080-1 CA23 OWS (ORBITER ISOLATED)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1109.0000 IN. XO
LREF = 474.8100 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

BETA0 = .000 ELV-0 = .000
AIL-0 = .000 RUO-0 = .000

RUN NO. 2/ 0 RN/L = 3.45 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CPC	CPB1	CPB2	CPB3
.602	.110	.00000	.12390	.13420	.17640	.17040
.598	1.260	.00000	.12850	.13890	.18470	.17500
.602	2.410	.00000	.12460	.13550	.17770	.16910
.601	3.720	.00000	.12780	.13620	.18340	.17310
.600	4.920	.00000	.12370	.12700	.18400	.17330
.601	6.230	.00000	.12220	.12790	.18820	.17080
.599	7.430	.00000	.12300	.13170	.18610	.17030
.600	8.640	.01000	.12830	.13160	.18910	.17740
.600	10.020	.01000	.12030	.12670	.18820	.16830
.600	11.230	.01000	.12450	.13020	.19650	.17750
	GRADIENT	.00006	.00006	.00133	.00115	.00034

(AESAD3) (05 MAY 75)

ARC14-080-1 CA23 OWS (ORBITER ISOLATED)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1109.0000 IN. XO
LREF = 474.8100 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

BETA0 = .000 ELV-0 = 5.000
AIL-0 = .000 RUO-0 = 10.000

RUN NO. 3/ 0 RN/L = 3.45 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CPC	CPB1	CPB2	CPB3
.599	.340	.05000	.16150	.17390	.21890	.20890
.600	1.510	.05000	.15850	.15850	.21020	.20020
.599	2.750	.04000	.14910	.15650	.20570	.19360
.599	4.020	.04000	.15020	.15260	.21220	.19640
.599	5.210	.05000	.14240	.14600	.19930	.18600
.598	6.430	.05000	.14670	.15300	.20540	.19330
.599	7.800	.05000	.13670	.14370	.19720	.18080
.601	9.000	.04000	.14380	.14450	.20240	.18340
.597	10.320	.05000	.15300	.14720	.20140	.18900
	GRADIENT	.00326	.00352	.00532	.00195	.00355

DATE 13 NOV 75

TABULATED SOURCE DATA - CA23A

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ARC14-080-1 CA23 045 (ORBITER ISOLATED)

(AE9A04) (05 MAY 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1109.0000 IN. XO
 LREF = 474.8100 IN. YMRP = .0000 IN. YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0125

BETA0 = .000 ELV-O = 5.000
 AIL-O = .000 RUD-O = .000

PARAMETRIC DATA

RUN NO.	4/ 0	RN/L = 3.43	GRADIENT INTERVAL = -5.00/ 5.00
MACH	ALPHA	BETA	CPC
.598	.310	.00000	CPB1
.598	1.540	.00000	CPB2
.601	2.840	.00000	CPB3
.599	3.930	.00000	CPB4
.598	5.240	.00000	CPB5
.600	6.500	.00000	CPB6
.599	7.780	.00000	CPB7
.598	8.980	.00000	CPB8
	10.320	.00000	CPB9
	GRADIENT	.00389	CPB10

ARC14-080-1 CA23 045 (ORBITER ISOLATED)

(AE9A05) (05 MAY 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1109.0000 IN. XO
 LREF = 474.8100 IN. YMRP = .0000 IN. YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0125

BETA0 = .000 ELV-O = 10.000
 AIL-O = .000 RUD-O = .000

PARAMETRIC DATA

RUN NO.	5/ 0	RN/L = 3.41	GRADIENT INTERVAL = -5.00/ 5.00
MACH	ALPHA	BETA	CPC
.598	.610	.00000	CPB1
.602	1.800	.01000	CPB2
.598	3.050	.00000	CPB3
.602	4.340	.00003	CPB4
.602	5.430	.00000	CPB5
.599	6.830	.00000	CPB6
.602	8.080	.00000	CPB7
	GRADIENT	-.00084	CPB8

(AES9A06) (05 MAY 75)

TABULATED SOURCE DATA - CA23A
ARC14-080-1 CA23 O4S (ORBITER ISOLATED)

DATE 13 NOV 75

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1109.0000 IN. XO
LREF = 474.8100 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

BETA0 = .000 ELV-0 = 5.000
AIL-0 = -10.000 RUJ-0 = .000

GRADIENT INTERVAL = -5.00/ 5.00

RUN NO.	6/ 0	RN/L = 3.43	GRADIENT INTERVAL = -5.00/ 5.00	CPB1	CPB2	CPB3
MACH	ALPHA	BETA	CPC			
.600	.250	-.10000	-.14890	-.14520	-.19520	-.18920
.605	1.500	-.10000	-.14010	-.14470	-.19500	-.18120
.602	2.710	-.10000	-.15350	-.15190	-.20230	-.19200
.601	4.070	-.10000	-.15070	-.15200	-.20260	-.19130
.601	5.230	-.10000	-.14640	-.14470	-.19790	-.18730
.602	6.430	-.10000	-.14370	-.14800	-.19900	-.18510
.599	7.780	-.11000	-.15270	-.15160	-.20080	-.18880
.598	9.010	-.12000	-.15500	-.15330	-.20220	-.19520
.599	10.290	-.11000	-.15650	-.15450	-.20660	-.19330
GRADIENT	.00000	-.00146	-.00193	-.00223	-.00134	

(AES9A07) (05 MAY 75)

ARC14-080-1 CA23 O4S (ORBITER ISOLATED)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1109.0000 IN. XO
LREF = 474.8100 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0125

PARAMETRIC DATA

BETA0 = .000 ELV-0 = .000
AIL-0 = .000 RUJ-0 = .000

GRADIENT INTERVAL = -5.00/ 5.00

RUN NO.	7/ 0	RN/L = 3.38	GRADIENT INTERVAL = -5.00/ 5.00	CPB1	CPB2	CPB3
MACH	ALPHA	BETA	CPC			
.599	.080	.00000	-.13700	-.14540	-.18890	-.18020
.604	1.200	.00000	-.11560	-.12690	-.16980	-.16140
.602	2.500	-.01000	-.12520	-.13320	-.18000	-.17300
.601	3.790	.00000	-.12370	-.13210	-.18460	-.17160
.600	4.950	.00000	-.12100	-.12870	-.18250	-.17140
.600	6.200	.00000	-.12100	-.12770	-.18150	-.16980
.599	7.470	-.01000	-.12020	-.12970	-.18360	-.17120
.602	8.670	-.01000	-.11870	-.13010	-.18430	-.17160
.600	9.970	-.01000	-.12030	-.12640	-.18320	-.16670
.600	11.250	-.01000	-.12220	-.12930	-.19630	-.17510
GRADIENT	.00000	-.00186	.00222	.00025	.00053	

DATE 13 NOV 75

TABULATED SOURCE DATA - CA23A

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ARC14-080-1 CA23 04S (ORBITER ISOLATED)

(AESA08) (05 MAY 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1109.0000 IN. XO
 LREF = 474.8100 IN. YMRP = .0000 IN. YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0125

PARAMETRIC DATA

BETA0 = -5.000 ELV-O = 9.000
 AIL-O = .000 RUO-O = .000

RUN NO. 8/ 0 RN/L = 3.39 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CPC	CPB1	CPB2	CPB3
.600	.080	-5.39300	-1.7650	-1.9070	-2.2230	-2.1190
.601	1.360	-5.39000	-1.6710	-1.8220	-2.1450	-2.0240
.602	2.620	-5.39000	-1.7600	-1.8440	-2.1790	-2.0740
.603	3.810	-5.38000	-1.6370	-1.7820	-2.1150	-2.0180
.604	5.150	-5.36000	-1.7020	-1.8300	-2.1910	-2.0970
.605	6.330	-5.35000	-1.7300	-1.8280	-2.1930	-2.0850
.606	7.660	-5.33000	-1.6950	-1.8570	-2.2160	-2.0870
.607	8.920	-5.32000	-1.7260	-1.8650	-2.2290	-2.1210
.608	10.270	-5.30000	-1.8540	-1.9560	-2.3020	-2.2170
GRADIENT		.00238	.00235	.00284	.00233	.00203

ARC14-080-1 CA23 747/1 AT1 (CARRIER ISOLATED)

(AESA09) (05 MAY 75)

REFERENCE DATA

SREF = 5500.0000 SQ.FT. XMRP = 1339.9000 IN. XC
 LREF = 327.7800 IN. YMRP = .0000 IN. YC
 BREF = 2348.0400 IN. ZMRP = 190.7500 IN. ZC
 SCALE = .0125

PARAMETRIC DATA

BETA0 = -5.000 STAB-C = 5.000
 RUO-C = .000

RUN NO. 9/ 0 RN/L = 3.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CPC	CPS81	CPS82	CP14	CP15	CP16	CP17
.602	-1.580	-5.00000	-1.00400	-0.0240	.01100	.09430	-.01670	.15270	.03200
.603	-1.540	-5.00000	.00080	-0.01630	.01320	.10520	-.00930	.15810	.03720
.604	.500	-4.99000	.01030	-.00830	.01930	.11380	-.00300	.16440	.04230
.605	1.660	-4.98000	.01100	-.00750	.01930	.11780	-.00320	.17210	.04290
.606	2.800	-4.98000	.00790	-.00680	.01720	.11940	-.00420	.17820	.02790
.607	3.830	-4.97000	.00360	-.01780	.00890	.11540	-.01010	.17920	.02260
.608	4.940	-4.96000	.00890	-.00780	.01890	.12200	-.00480	.19920	.01850
.609	6.040	-4.95000	.00100	-.01370	.01330	.11620	-.01240	.21210	.00800
.610	7.020	-4.93000	-.00020	-.01660	.01150	.11460	-.01150	.23130	.00280
GRADIENT		.00621	.00135	.00137	.00042	.00355	.00106	.00639	-.00277

TABULATED SOURCE DATA - CA23A

ARC14-080-1 CA23 747/2 (CARRIER ISOLATED)

REFERENCE DATA

SREF = 5500.0000 SQ.FT. XMRP = 1339.9000 IN. XC
 LREF = 327.7800 IN. YMRP = .0000 IN. YC
 BREF = 2348.0400 IN. ZMRP = 190.7500 IN. ZC
 SCALE = .0125

PARAMETRIC DATA

BETAC = -5.000 STAB-C = 5.000
 RUD-C = .000

RUN NO. 10/ 0 RN/L = 3.48 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAC	BETA	CPC	CPSB1	CPSB2	CPI4	CPI5	CPI6	CPI7
.597	-1.680	-4.98000	.00310	-.00810	.01110	.09330	-.01010	.14960	.05060
.597	-.580	-4.97000	.00710	-.00710	.01450	.09780	-.00670	.16020	.05770
.598	.540	-4.97000	.00760	-.00780	.01500	.11100	-.00180	.15310	.05230
.600	1.660	-4.96000	.00880	-.00500	.01450	.10730	-.00290	.15930	.04730
.601	2.700	-4.96000	.01140	-.00230	.02140	.10920	-.00160	.16830	.04240
.598	3.790	-4.95000	.00480	-.00490	.01860	.11010	-.00560	.17190	.03340
.597	4.840	-4.93000	.00630	-.00550	.01710	.11330	-.00850	.18830	.02690
.601	5.940	-4.92000	.00870	-.00270	.02310	.11700	-.00500	.19960	.02480
.600	7.050	-4.91000	.00350	-.00020	.02760	.11570	-.00430	.22520	.01950
	GRADIENT	.00655	.00030	.00058	.00107	.00273	.00025	.00486	-.00424

TABULATED SOURCE DATA - CA23B

ARC14-080-1 CA23 747/3 (CARRIER ISOLATED)

REFERENCE DATA

SREF = 5500.0000 SQ.FT. XMRP = 1339.9000 IN. XC
 LREF = 327.7800 IN. YMRP = .0000 IN. YC
 BREF = 2348.0400 IN. ZMRP = 190.7500 IN. ZC
 SCALE = .0125

PARAMETRIC DATA

BETAC = -5.000 STAB-C = 1.000
 RUD-C = .000

RUN NO. 11/ 0 RN/L = 3.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAC	BETA	CPC	CPSB1	CPSB2	CPI4	CPI5	CPI6	CPI7
.599	-1.390	-5.00000	.00090	-.01540	.02840	.02800	-.01340	-.05830	.06920
.599	-.270	-5.00000	.00420	-.00850	.02390	.03860	-.01250	-.05770	.07170
.600	.820	-5.00000	.00640	-.01290	.02680	.04080	-.01560	-.05870	.07350
.600	1.880	-4.99000	.00930	-.00740	.03340	.04470	-.01100	-.05840	.07070
.600	2.950	-4.98000	.00670	-.01470	.02870	.04780	-.01130	-.06010	.06650
.599	4.100	-4.97000	.00670	-.01840	.03150	.05130	-.01200	-.06020	.05730
.600	5.070	-4.96000	-.04170	-.07250	.01820	.00490	-.05800	-.11010	.00220
.599	6.180	-4.95000	.00250	-.02900	.03030	.05340	-.01220	-.06550	.04370
.599	7.260	-4.93000	.00330	-.02810	.03630	.05330	-.01280	-.06450	.04370
.600	GRADIENT	.00576	.00103	-.00074	.00035	.00388	.00039	-.00043	-.00205

(AE9812) (21863V) (05 MAY 75) (

PARAMETRIC DATA

BETAC • -5.000 STAB-C • 1.000

RUN NO.	12/ 0	RN/L =	3.50	GRADIENT INTERVAL =	-5.00/	5.00
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	ALPHAC	BETA	CPC	CPSB1	CPSB2	CP14	CP15	CP16	CP17
MACH									
.602	-1.350	-5.06000	.00510	-.05760	.03540	.01310	-.01530	-.04130	.03610
.599	-.240	-5.05000	.00250	-.04920	.03000	.02220	-.01360	-.04420	.03570
.602	.790	-5.05000	.00620	-.04040	.03150	.02720	-.01010	-.03440	.03580
.601	1.930	-5.04000	.00300	-.04340	.02890	.03030	-.01570	-.04530	.03060
.601	2.940	-5.03000	.00500	-.03900	.03110	.03240	-.01630	-.05040	.03070
.601	4.100	-5.02000	.00150	-.04260	.02790	.03420	-.01820	-.05260	.02720
.599	5.190	-5.01000	.00390	-.03930	.02640	.04180	-.01820	-.05640	.03140
.600	6.250	-4.99000	-.00180	-.04760	.02600	.03970	-.02420	-.06900	.02700
.600	7.320	-4.97000	-.00230	-.04920	.02680	.04150	-.02610	-.07760	.02510
GRADIENT		.00713	-.00037	.00268	-.00098	.00366	-.00075	-.00214	-.00171

PARAMETRIC DATA

BETAC	=	.000	STAB-C	=	1.000
RUO-C	=	.000			

RUN NO. 13/ 0 RN/L = 3.43 GRADIENT INTERVAL = -5.00/ 5.00

[illegible]

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TABULATED SOURCE DATA - CA23A

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ARC14-080-1 CA23 747/3 (CARRIER ISOLATED)

(AE9814) (05 MAY 75)

REFERENCE DATA

SREF	=	5500.0000	SQ.FT.
LREF	=	327.7800	IN.
BREF	=	2346.0400	IN.
SCALE	=	.0125	
XMRP	=	1339.9000	IN. XC
YMRP	=	.0000	IN. YC
ZMRP	=	190.7500	IN. ZC

BETAC	=	.000	STAB-C	=	-1.000
RUO-C	=	.000			

PARAMETRIC DATA

MACH	RUN NO.	14/ 0	RN/L =	3.41	GRADIENT INTERVAL =	5.00/	5.00
	AL-HAC	BETA	CPC	CPSB1	CPSB2	CP14	CP15
.604	-2.540	.00000	.00000	.00000	.00000	.00000	.00000
.597	-1.940	.00000	.00000	.00000	.00000	.00000	.00000
.600	-.730	.00000	.00000	.00000	.00000	.00000	.00000
.598	-.350	.00000	.00000	.00000	.00000	.00000	.00000
.598	1.440	.00000	.00000	.00000	.00000	.00000	.00000
.596	2.530	.00000	.00000	.00000	.00000	.00000	.00000
.597	3.650	.00000	.00000	.00000	.00000	.00000	.00000
.605	4.770	.00000	.00000	.00000	.00000	.00000	.00000
.604	5.810	.00000	.00000	.00000	.00000	.00000	.00000
.601	6.920	.00000	.00000	.00000	.00000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000

ARC14-080-1 CA23 747/3 (-H15) (CARRIER ISOLATED)

(AE9815) (05 MAY 75)

REFERENCE DATA

SREF	=	5500.0000	SQ.FT.	XTRP	=	1339.9000	IN.	XC
LREF	=	327.7800	IN.	YTRP	=	.0000	IN.	YC
BREF	=	2348.0400	IN.	ZTRP	=	190.7500	IN.	ZC
SCALE	=	.0125						

BETAC	=	.000	RUD-C	=	.000
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PARAMETRIC DATA

MACH	ALPHAC	BETA	CPC	CPS81	CPS82	CPI4	CPI5
.602	-2.970	.00000	.00000	.00000	.00000	.00000	.00000
.599	-1.860	.00000	.00000	.00000	.00000	.00000	.00000
.599	-.800	.00000	.00000	.00000	.00000	.00000	.00000
.601	.250	.00000	.00000	.00000	.00000	.00000	.00000
.603	1.450	.00000	.00000	.00000	.00000	.00000	.00000
.602	2.520	.00000	.00000	.00000	.00000	.00000	.00000
.600	3.640	.00000	.00000	.00000	.00000	.00000	.00000
.601	4.730	.00000	.00000	.00000	.00000	.00000	.00000
.600	5.820	.00000	.00000	.00000	.00000	.00000	.00000
.600	6.890	.00000	.00000	.00000	.00000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000

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TABULATED SOURCE DATA - CA23A

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ARC14-080-1 CA23 747/2 (CARRIER ISOLATED)

(AESB16) (05 MAY 75)

REFERENCE DATA

SREF = 5500.0000 SQ.FT. XMRP = 1339.9000 IN. XC
 LREF = 327.7800 IN. YMRP = .0000 IN. YC
 BREF = 2348.0400 IN. ZMRP = 190.7500 IN. ZC
 SCALE = .0125

PARAMETRIC DATA

BETAC = .000 STAB-C = 5.000
 RUO-C = .000

RUN NO. 16/ 0 RN/L = 3.46 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAC	BETA	CPC	CPSB1	CPSB2	CP14	CP15	CP16	CP17
.604	-3.280	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000
.606	-2.050	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000
.605	-.810	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000
.605	.120	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000
.604	1.300	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000
.604	2.250	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000
.604	3.370	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000
.603	4.510	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000
.604	5.500	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000
.604	6.600	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

ARC14-080-1 CA23 747/1 AT1 (CARRIER ISOLATED)

(AESB17) (05 MAY 75)

REFERENCE DATA

SREF = 5500.0000 SQ.FT. XMRP = 1339.9000 IN. XC
 LREF = 327.7800 IN. YMRP = .0000 IN. YC
 BREF = 2348.0400 IN. ZMRP = 190.7500 IN. ZC
 SCALE = .0125

PARAMETRIC DATA

BETAC = .000 STAB-C = 5.000
 RUO-C = .000

RUN NO. 17/ 0 RN/L = 3.46 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAC	BETA	CPC	CPSB1	CPSB2	CP14	CP15	CP16	CP17
.595	-3.150	.00000	.00860	.02280	.01100	.05870	-.00930	-.02970	.03230
.594	-2.080	.00000	.01770	.03050	.01700	.07290	-.00200	-.02200	.03930
.593	-.990	.00000	.01350	.02920	.01550	.07250	-.00630	-.02530	.03630
.594	.150	.00000	.01570	.03130	.02110	.07290	-.00060	-.02200	.04150
.589	1.180	.00000	.01240	.02510	.01120	.07850	-.00690	-.02660	.03510
.589	2.260	.00000	.01140	.02450	.01620	.08570	-.00410	-.02510	.03550
.589	3.360	.00000	.00690	.01590	.01560	.08380	-.00720	-.02580	.03310
.598	4.480	.00000	.00650	.01430	.01190	.08410	-.00890	-.02810	.02800
.598	5.550	.00000	.00670	.01240	.01310	.08600	-.00880	-.02350	.02920
.598	6.670	.00000	.01200	.01030	.01700	.09120	-.00520	-.01890	.02940
GRADIENT		.00000	-.00086	-.00167	-.00009	.00304	-.00025	-.00013	-.00076

DATE 13 NOV 75

TABULATED SOURCE DATA - CA23A

ARC14-080-1 CA23 747/1 AT1 (CARRIER ISOLATED)

(AE9818) (05 MAY 75)

REFERENCE DATA

SREF = 5500.0000 SQ.FT. XMRP = 1339.9000 IN. XC
LREF = 327.7800 IN. YMRP = .0000 IN. YC
BREF = 2348.0400 IN. ZMRP = 190.7500 IN. ZC
SCALE = .0125

BETAC =
RUD-C =

.000 STAB-C = 5.000
10.000

PARAMETRIC DATA

RUN NO. 18/ 0 RN/L = 3.41 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAC	BETA	CPC	CPS81	CPS82	CPI4	CPI5	CPI6	CPI7
.597	-3.190	.05000	.02420	.02990	.02350	.07300	.00470	-.01620	.05390
.601	-1.030	.05000	.01630	.01970	.01000	.07470	-.00470	-.02540	.04200
.500	.090	.05000	.01610	.01980	.01140	.08160	-.00300	-.01940	.04150
.601	1.180	.05000	.01670	.02240	.01370	.08380	-.00090	-.00930	.04210
.600	2.210	.05000	.01120	.01720	.01150	.08100	-.00720	-.01120	.03990
.600	3.310	.05000	.00660	.00890	.00730	.08110	-.01080	-.01480	.02900
.597	4.490	.05000	.01030	.01270	.01540	.09140	-.00280	-.00720	.03080
.602	5.630	.05000	.01230	.01330	.08570	.08570	-.00810	-.00810	.02810
.599	6.600	.04000	.00600	.00500	.00800	.08590	-.01080	-.00940	.02180
GRADIENT		-.00172	-.00201	-.00228	-.00103	.00199	-.00122	.00153	-.00290

ARC14-080-1 CA23 747/1 AT1 (CARRIER ISOLATED)

(AE9819) (05 MAY 75)

REFERENCE DATA

SREF = 5500.0000 SQ.FT. XMRP = 1339.9000 IN. XC
LREF = 327.7800 IN. YMRP = .0000 IN. YC
BREF = 2348.0400 IN. ZMRP = 190.7500 IN. ZC
SCALE = .0125

BETAC =
RUD-C =

.000 STAB-C = -1.000
.000

PARAMETRIC DATA

RUN NO. 19/ 0 RN/L = 3.44 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAC	BETA	CPC	CPS81	CPS82	CPI4	CPI5	CPI6	CPI7
.600	-2.010	.00000	.00900	.01230	.00400	-.02110	-.01140	-.01770	.02810
.600	-.900	.00000	.00420	.00380	-.00320	-.02560	-.01690	-.01990	.02590
.600	.150	.00000	-.00920	-.01360	-.01790	-.03700	-.03300	-.03500	.00790
.598	1.230	.00000	.00410	.00110	-.00060	-.02270	-.02380	-.02540	.02220
.599	2.360	.00000	.00880	.00350	.00210	-.00890	-.01530	-.01700	.02990
.599	3.560	.00000	.00220	.00520	.00350	-.01690	-.02130	-.01720	.02430
.599	4.620	.00000	.00290	.00480	.00760	-.01050	-.01890	-.01480	.02340
.600	5.680	.00000	.00410	.00590	.00390	-.00890	-.01830	-.01030	.02420
.600	6.700	.00000	.00350	.00120	.00350	-.01050	-.02130	-.01120	.02090
GRADIENT		.00000	-.00013	-.00167	.00145	.00250	-.00042	.00106	.00017

ARC14-080-1 CA23 747/1 AT1 (CARRIER ISOLATED)

REFERENCE DATA

SREF = 5500.0000 SQ.FT. XMRP = 1339.9000 IN. XC
 LREF = 327.7800 IN. YMRP = .0000 IN. YC
 BREF = 2348.0400 IN. ZMRP = 190.7500 IN. ZC
 SCALE = .0125

PARAMETRIC DATA

BETAC = .000 STAB-C = 3.000
 RUO-C = .000

RUN NO. 20/ 0 RN/L = 3.45 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAC	BETA	CPC	CPSB1	CPSB2	CPI4	CPI5	CPI6	CPI7
.599	-3.140	.01000	.01710	.02510	.00840	.03150	-.00800	-.01670	.03250
.600	-2.060	.00000	.01990	.02660	.00890	.04260	-.00250	-.00780	.03560
.599	-.940	.00000	.00600	.01200	-.00410	.03280	-.01780	-.02320	.02100
.601	.100	.00000	.02120	.02820	.01420	.05120	-.00310	-.00810	.04020
.600	1.260	.00000	.01690	.02260	.01320	.05360	-.00520	-.01190	.03560
.599	2.250	.00000	.01150	.01780	.00380	.05100	-.01030	-.01530	.02990
.599	3.440	.00000	.01200	.01460	.00960	.05440	-.01050	-.01110	.03140
.600	4.470	.00000	.01220	.01090	.01490	.05820	-.00710	-.00550	.03190
.600	5.630	.00000	.00810	.00540	.01110	.05550	-.01300	-.01030	.02510
.601	6.670	-.01000	.01100	.00530	.01430	.06000	-.00870	-.03130	.02800
GRADIENT		-.00076	-.00068	-.00162	.00094	.00331	-.00015	.00089	-.00004

ARC14-080-1 CA23 747/1 (-H15.6) AT1 (CARRIER ISOL.) (AE9821) (05 MAY 75)

REFERENCE DATA

SREF = 5500.0000 SQ.FT. XMRP = 1339.9000 IN. XC
 LREF = 327.7800 IN. YMRP = .0000 IN. YC
 BREF = 2348.0400 IN. ZMRP = 190.7500 IN. ZC
 SCALE = .0125

PARAMETRIC DATA

BETAC = .000 RUO-C = .000

RUN NO. 21/ 0 RN/L = 3.47 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAC	BETA	CPC	CPSB1	CPSB2	CPI4	CPI5	CPI6	CPI7
.601	-3.130	.01000	.00470	.01400	-.00190	.03470	-.02060	-.02690	.02200
.601	-1.990	.00000	.01210	.01970	.00270	.04070	-.01190	-.01960	.02800
.601	-.950	.00000	.01800	.01860	.00530	.04330	-.00900	-.01160	.03330
.600	.170	.00000	.00910	.00740	-.00430	.02540	-.02000	-.01960	.02510
.600	1.320	.00000	.00840	.00540	-.00360	.01950	-.02200	-.02160	.02280
.601	2.340	.00000	.00620	.00380	-.00080	.01980	-.01980	-.01510	.02220
.601	3.500	.00000	.00100	-.01070	-.00170	.01040	-.02370	-.02340	.01970
.600	4.530	.00000	-.00110	-.01550	-.00450	.00190	-.02620	-.01780	.01620
.600	5.630	.00000	-.00420	-.02150	-.00280	-.01020	-.02820	-.01850	.01420
GRADIENT		-.00076	-.00144	-.00464	-.00063	-.00497	-.00144	.00034	-.00128

ARC14-080-1 CA23 747/4 01 AT1 (ORB MATED)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1109.0000 IN. XO
 LREF = 474.8100 IN. YMRP = .0000 IN. YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0125

PARAMETRIC DATA

BETAC = .000 RUD-C = .000
 BETAO = .000 ELV-O = 5.000
 AIL-O = .000
 I-ORB = 5.000

RUN NO. 22/ 0 RN/L = 3.47 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ALPHAC	BETA	CPC	CPB1	CPB2	CPB3
.600	3.430	-3.06000	.00000	-.03570	-.21160	.00000	.00000
.597	4.570	-1.93000	.00000	-.03890	-.21780	.00000	.00000
.602	5.670	-.85000	.00000	-.02790	-.20810	.00000	.00000
.601	6.830	.20000	.00000	-.02910	-.21100	.00000	.00000
.601	7.950	1.39000	.00000	-.02520	-.21190	.00000	.00000
.601	9.110	2.53000	.00000	-.02910	-.21670	.00000	.00000
.601	10.230	3.63000	.00000	-.02830	-.21420	.00000	.00000
.600	11.350	4.73000	.00000	-.02360	-.21430	.00000	.00000
.600	12.450	5.82000	.00000	-.02090	-.21680	.00000	.00000
.599	13.570	6.91000	.00000	-.02090	-.21960	.00000	.00000
	GRADIENT	.99123	.00000	-.00281	-.00544	.00000	.00000

ARC14-080-1 CA23 747/1 01 AT1 (ORB MATED)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1109.0000 IN. XO
 LREF = 474.8100 IN. YMRP = .0000 IN. YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0125

(AE9C23) (05 MAY 75)

PARAMETRIC DATA

BETAC = .000 STAB-C = 5.000
 RUD-C = .000 BETAO = .000
 ELV-O = 5.000 AIL-O = .000
 RUD-O = .000 I-ORB = 6.000

RUN NO. 23/ 0 RN/L = 3.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ALPHAC	BETA	CPC	CPB1	CPB2	CPB3
.704	3.370	-3.16000	.00000	-.02960	-.21740	-.21710	-.22250
.693	4.490	-2.06000	.00000	-.03350	-.21440	-.22060	-.22730
.700	5.690	-.89000	.00000	-.02540	-.21010	-.21570	-.21790
.698	6.820	.22000	.00000	-.02350	-.20890	-.21380	-.21810
.699	8.020	1.40000	.00000	-.02280	-.21240	-.21590	-.22190
.698	9.180	2.53000	.00000	-.02160	-.21190	-.21490	-.22080
.700	10.360	3.68000	.00000	-.02310	-.21460	-.22050	-.22510
.701	11.470	4.76000	.00000	-.02230	-.22000	-.22490	-.22890
.701	12.610	5.88000	.00000	-.02070	-.22220	-.22650	-.23070
.698	13.750	7.01000	-.01000	-.02540	-.23260	-.24100	-.24400
	GRADIENT	.98214	.00000	-.00348	.00268	-.00312	-.00429

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TABULATED SOURCE DATA - CA23A

ARC14-080-1 CA23 747/1 01 AT1 (ORB MATED)

(AESC24) (05 MAY 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1109.0000 IN. XO
LREF = 474.8100 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0125

BETAC = .000 STAB-C = 5.000
RUD-C = .000 BETAO = .000
ELV-O = .000 AIL-O = .000
RUD-O = .000 I-ORB = 6.000

PARAMETRIC DATA

RUN NO. 24/ 0 RN/L = 3.32 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ALPHAC	BETA	CPC	CPB1	CPB2	CPB3
.585	3.380	-3.10000	.00000	-.03540	-.20720	-.21070	-.21600
.584	4.530	-1.96000	.00000	-.03900	-.20930	-.21940	-.22120
.585	5.600	-.90000	.00000	-.03630	-.20420	-.21220	-.21780
.585	6.740	.21000	.00000	-.03570	-.20590	-.21500	-.21810
.585	7.850	1.31000	.00000	-.03130	-.20920	-.21410	-.22110
.585	8.960	2.40000	.00000	-.02950	-.20770	-.21820	-.22060
.584	10.050	3.47000	.00000	-.02910	-.21490	-.21660	-.22290
.586	11.160	4.56000	.00000	-.03040	-.21300	-.22200	-.22790
.585	12.300	5.68000	.00000	-.02440	-.21350	-.21700	-.22360
.585	13.400	6.76000	.00000	-.02260	-.21660	-.22710	-.22880
GRADIENT		.99130	.00000	-.00313	-.00183	-.00757	-.00452

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1109.0000 IN. XO
LREF = 474.8100 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0125

BETAC = .000 STAB-C = 5.000
RUD-C = .000 BETAO = .000
ELV-O = .000 AIL-O = .000
RUD-O = .000 I-ORB = 6.000

PARAMETRIC DATA

ARC14-080-1 CA23 747/1 01 AT1 (ORB MATED)

(AESC25) (05 MAY 75)

RUN NO. 25/ 0 RN/L = 3.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ALPHAC	BETA	CPC	CPB1	CPB2	CPB3
.501	3.350	-3.09000	.00000	-.04390	-.20460	-.21310	-.21890
.501	4.450	-2.01000	.00000	-.04030	-.20380	-.21410	-.22030
.501	5.540	-.92000	.00000	-.04220	-.20450	-.21610	-.21930
.501	6.590	.11000	.00000	-.03770	-.20240	-.21310	-.21760
.501	7.710	1.22000	.00000	-.04360	-.20860	-.21900	-.22390
.501	8.760	2.26000	.00000	-.03780	-.20450	-.21520	-.21920
.501	9.870	3.35000	.00000	-.04580	-.21900	-.22400	-.23120
.502	10.920	4.38000	.00000	-.03700	-.21200	-.22400	-.22800
.503	12.020	5.47000	.00000	-.03080	-.21080	-.22200	-.22510
.502	13.110	6.54000	.00000	-.04020	-.21950	-.23110	-.23870
GRADIENT		.98182	.00000	.00327	.00073	.00091	.00127

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DATE 13 NOV 75

TABULATED SOURCE DATA - CA23A

ARC14-080-1 CA23 747/1 01 AT1 (ORB MATED)

(AE9C26) (05 MAY 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1109.0000 IN. XO
 LREF = 474.8100 IN. YMRP = .0000 IN. YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0125

PARAMETRIC DATA

BETAC = .000 STAB-C = 5.000
 RUO-C = .000 BETAO = .000
 ELV-O = 5.000 AIL-O = .000
 RUO-O = .000 I-ORB = 6.000

GRADIENT INTERVAL = -5.00/ 5.00

RUN NO.	27/ 0	RN/L = 1.99	GRADIENT INTERVAL = -5.00/ 5.00
MACH	ALPHA	ALPHAC	BETA
.301	3.350	-3.02000	.00000
.302	4.400	-1.98000	.00000
.303	5.420	-.96000	.00000
.303	6.470	.08000	.00000
.303	7.480	1.08000	.00000
.304	8.510	2.11000	.00000
.301	9.530	3.13000	.00000
.301	10.570	4.16000	.00000
.301	11.580	5.17000	.00000
.301	12.610	6.19000	.00000
	GRADIENT	.99048	.00000

CPB3
 -.21420
 -.21320
 -.21590
 -.21530
 -.21980
 -.21560
 -.22380
 -.22810
 -.23850
 -.24030
 .00095

CPB2
 -.21090
 -.21430
 -.21150
 -.21200
 -.21320
 -.20910
 -.21940
 -.22260
 -.23290
 -.23920
 -.00324

CPB1
 -.19760
 -.19770
 -.19500
 -.19660
 -.20440
 -.19600
 -.20490
 -.20700
 -.21740
 -.22040
 -.00010

(AE9C27) (05 MAY 75)

ARC14-080-1 CA23 747/1 01 AT1 (ORB MATED)

PARAMETRIC DATA

BETAC = .000 STAB-C = 5.000
 RUO-C = 10.000 BETAO = .000
 ELV-O = 5.000 AIL-O = .000
 RUO-O = .000 I-ORB = 6.000

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1109.0000 IN. XO
 LREF = 474.8100 IN. YMRP = .0000 IN. YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0125

GRADIENT INTERVAL = -5.00/ 5.00

RUN NO.	27/ 0	RN/L = 3.44	GRADIENT INTERVAL = -5.00/ 5.00
MACH	ALPHA	ALPHAC	BETA
.591	3.390	-3.09000	.04000
.590	4.510	-1.99000	.04000
.588	5.660	-.85000	.03000
.590	6.740	.21000	.03000
.588	7.840	1.30000	.04000
.589	8.970	2.41000	.03000
.588	10.060	3.48000	.03000
.588	11.170	4.57000	.03000
.587	12.270	5.65000	.03000
.588	13.410	6.77000	.03000
	GRADIENT	.97321	.00000

CPB3
 -.21490
 -.21670
 -.21910
 -.21450
 -.21850
 -.21650
 -.22210
 -.23280
 -.22400
 -.23030
 -.00161

CPB2
 -.21250
 -.21190
 -.21530
 -.20830
 -.21440
 -.21240
 -.21550
 -.22240
 -.22090
 -.22860
 .00054

CPB1
 -.20460
 -.20330
 -.20770
 -.20240
 -.20950
 -.20590
 -.20960
 -.21610
 -.21150
 -.21650
 .00116

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TABULATED SOURCE DATA - CA23A

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ARC14-080-1 CA23 747/1 01 AT1 (ORG MATED)

(AFC28) (05 MAY 75) (54 AM 50) (03263V)

REFERENCE DATA

SREF	-	2690.0000	SQ.FT.	XPRP	-	1109.0000	IN.	XO
LREF	-	474.8100	IN.	YPRP	-	.0000	IN.	YO
BREF	-	936.6800	IN.	ZPRP	-	375.0000	IN.	ZO
SCALE	-	.0125						

PARAMETRIC DATA

BETAC	=	.000	STAB-C	=	3.000
RUC-C	=	.000	BETAO	=	.000
ELV-O	=	5.000	ATL-C	=	.000
RUC-O	=	.000	I-ORB	=	6.000

RUN NO. 28/ 0 RN/L = 3.46 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ALPHAC	BETA	CPC	CPB1	CPB2	CPB3
.593	3.420	-3.05000	.00000	-.02970	-.20880		
.593	4.520	-1.97000	.00000	-.19740	-.20450		
.591	5.650	-.86000	.00000	-.02860	-.21030		
.591	6.740	2.10000	.00000	-.03160	-.21040		
.591	7.870	1.32000	.01000	-.02880	-.20760		
.590	8.990	2.43000	.00000	-.03080	-.21130		
.591	10.110	3.53000	.00000	-.02790	-.21570		
.590	11.210	4.60000	.00000	-.02460	-.21810		
.590	12.340	5.72000	-.01000	-.02120	-.21010		
.591	13.440	6.80000	.00000	-.01880	-.22220		
GRADIENT		.98182	.00000	.00136	.00291	.00391	.00109

ARC14-080-1 CA23 747/1 01 AT1 (OR8 MATED)

(AE9C29) (05 MAY 79) (6263V)

REFERENCE DATA

SREF	=	2690.0000	SQ.FT.	XPRP	=	1109.0000	IN.	XO
LREF	=	474.8100	IN.	YPRP	=	.0000	IN.	YO
BREF	=	936.6800	IN.	ZPRP	=	375.0000	IN.	ZO
SCALE	=	.0125						

PARAMETRIC DATA

BETAC	=	.000	STAB-C	=	-1.000
RUO-C	=	.000	BEYAO	=	.000
ELV-O	=	5.000	AIL-O	=	.000
RUO-O	=	.000	I-ORB	=	6.000

RUN NO. 29/ 0 RN/L = 3.39 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ALPHAC	BETA	CPC	CPB1	CPB2	CPB3
.591	4.600	-1.90000	.00000	-.02520	-.18780	-.19360	-.19980
.589	5.710	-.80000	.00000	-.03240	-.19970	-.20660	-.21320
.589	6.820	.29000	.00000	-.02620	-.19400	-.20430	-.20810
.589	7.950	1.40000	.00000	-.03260	-.20260	-.20920	-.21540
.589	9.090	2.52000	.00000	-.03070	-.20170	-.20720	-.21200
.591	10.220	3.64000	.00000	-.02270	-.19650	-.20070	-.20930
.591	11.270	4.66000	.00000	-.02450	-.20050	-.20730	-.21450
.589	12.390	5.76000	.00000	-.02120	-.20050	-.21150	-.21290
.589	13.500	6.85000	.00000	-.02590	-.21110	-.21660	-.22560
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000

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TABULATED SOURCE DATA - CA23A

(AEC30) (05 MAY 75)

ARC14-080-1 CA23 747/1 01 AT1 (ORB MATED)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1109.0000 IN. XO
 LREF = 474.8100 IN. YMRP = .0000 IN. YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0125

RUN NO. 30/ 0 RN/L = 3.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ALPHAC	BETA	CPC	CPB1	CPB2	CPB3
.601	3.580	-2.93000	.00000	-.00240	-.20310	-.20810	-.21210
.598	4.670	-1.86000	.00000	-.00020	-.19910	-.20580	-.21530
.597	5.790	-.75000	.00000	-.00430	-.20600	-.21340	-.21750
.595	6.890	.33000	.00000	.00390	-.19920	-.20470	-.20870
.604	8.040	1.45000	.00000	.00070	-.20240	-.20830	-.21300
.603	9.130	2.58000	.00000	.00010	-.20770	-.21330	-.21630
.603	10.230	3.66000	.00000	.00100	-.21290	-.21860	-.22290
.597	11.400	4.76000	.00000	.00340	-.21860	-.22470	-.22870
.593	12.500	5.83000	.00000	-.00100	-.21760	-.22700	-.23170
.600	13.620	6.93000	.00000	.00280	-.21930	-.22770	-.23300
	GRADIENT	.98165	.00000	.00202	.00367	.00119	-.00294

PARAMETRIC DATA

BETAC = .000 STAB-C = -1.000
 RUO-C = .000 BETAO = .000
 ELV-O = 10.000 AIL-O = .000
 RUO-O = .000 I-ORB = 6.000

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1109.0000 IN. XO
 LREF = 474.8100 IN. YMRP = .0000 IN. YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0125

RUN NO. 31/ 0 RN/L = 3.44 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ALPHAC	BETA	CPC	CPB1	CPB2	CPB3
.604	3.440	-3.07000	.00000	-.00170	-.21380	-.22340	-.22610
.601	4.530	-1.95000	.00000	-.00630	-.21590	-.22160	-.23090
.601	5.660	-.89000	.00000	.00390	-.21300	-.21600	-.22370
.601	6.820	.25000	.00000	.00140	-.21390	-.21720	-.22460
.601	7.970	1.38000	.00000	-.00040	-.21700	-.22430	-.22560
.602	9.100	2.49000	.00000	.00050	-.21930	-.22170	-.22960
.599	10.210	3.58000	.00000	.00130	-.22120	-.22830	-.23670
.599	11.320	4.68000	.00000	.00350	-.22230	-.23170	-.23310
.600	12.320	5.72000	.00000	.00550	-.22210	-.22480	-.23450
.600	13.550	6.85000	.00000	.00410	-.22800	-.23270	-.23700
	GRADIENT	.97391	.00000	-.00400	-.00183	.00157	-.00417

PARAMETRIC DATA

BETAC = .000 STAB-C = 5.000
 RUO-C = .000 BETAO = .000
 ELV-O = 10.000 AIL-O = .000
 RUO-O = .000 I-ORB = 6.000

ARC14-080-1 CA23 747/1 01 AT1 (ORB MATED)

(AEC31) (05 MAY 75)

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TABULATED SOURCE DATA - CA23A

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ARC14-080-1 CA23 747/1 01 AT1 (ORB MATED)

(AESC32) (05 MAY 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
 LREF = 474.8100 IN.
 BREF = 936.6800 IN.
 SCALE = .0125

XMRP = 1109.0000 IN. XO
 YMRP = .0000 IN. YO
 ZMRP = 375.0000 IN. ZO

BETAC = .000 STAB-C = 5.000
 RUO-C = .000 BETAO = .000
 ELV-O = .000 AIL-O = .000
 RUO-O = .000 I-ORB = 6.000

PARAMETRIC DATA

RUN NO. 32/ 0 RN/L = 3.46 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ALPHAC	BETA	CPC	CPB1	CPB2	CPB3
.601	3.280	-3.17000	.00000	-.05270	-.19550	-.20350	-.21280
.601	4.380	-2.09000	.00000	-.04820	-.19030	-.19820	-.20790
.601	5.550	-.93000	.00000	-.05140	-.19120	-.19890	-.20450
.597	6.660	.16000	.00000	-.04900	-.19380	-.20460	-.20970
.598	7.770	1.25000	.00000	-.04410	-.19330	-.19700	-.20780
.599	8.860	2.32000	.00000	-.04720	-.19550	-.20220	-.21060
.600	10.000	3.43000	.00000	-.04820	-.19820	-.20750	-.21220
.599	11.090	4.51000	.00000	-.05130	-.20260	-.21500	-.22140
.600	12.250	5.65000	.00000	-.04550	-.20590	-.21430	-.22030
.601	13.340	6.72000	.00000	-.04620	-.20740	-.21610	-.22340
	GRADIENT	.98182	.00000	.00409	.00473	.00482	.00445

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
 LREF = 474.8100 IN.
 BREF = 936.6800 IN.
 SCALE = .0125

XMRP = 1109.0000 IN. XC
 YMRP = .0000 IN. YC
 ZMRP = 375.0000 IN. ZO

BETAC = .000 STAB-C = 5.000
 RUO-C = .000 BETAO = .000
 ELV-O = .000 AIL-O = .000
 RUO-O = .000 I-ORB = 6.000

PARAMETRIC DATA

RUN NO. 33/ 0 RN/L = 3.43 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ALPHAC	BETA	CPC	CPB1	CPB2	CPB3
.600	3.290	-3.15000	.00000	-.05570	-.18110	-.19250	-.19950
.598	4.400	-2.05000	.00000	-.05920	-.18490	-.19500	-.20240
.598	5.540	-.93000	.00000	-.05880	-.18040	-.19380	-.20120
.602	6.640	.14000	.00000	-.05620	-.18760	-.19690	-.20920
.600	7.740	1.23000	.00000	-.05410	-.19070	-.20140	-.20680
.601	8.780	2.25000	.00000	-.05660	-.19000	-.20060	-.20500
.601	10.000	3.45000	.00000	-.05940	-.19790	-.20520	-.21260
.601	11.110	4.54000	.00000	-.05210	-.19340	-.20670	-.20810
.600	12.190	5.60000	.00000	-.05140	-.19710	-.20920	-.21450
.600	13.300	6.68000	-.01000	-.05310	-.20120	-.21890	-.22300
	GRADIENT	.99099	.00000	-.00315	-.00342	-.00225	-.00261

ARC14-080-1 CA23 747/1 05 AT1 (ORB MATED)

(AESC33) (05 MAY 75)

DATE 13 NOV 75

TABULATED SOURCE DATA - CA23A

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ARC14-080-1 CA23 747/1 01 AT1 (ORB MATED)

(AESC34) (05 MAY 75)

REFERENCE DATA

SREF = 2630.0000 SQ.FT.
 LREF = 474.8100 IN.
 BREF = 936.6800 IN.
 SCALE = .0125

XMRP = 1109.0000 IN. XO
 YMRP = .0000 IN. YO
 ZMRP = 375.0000 IN. ZO

PARAMETRIC DATA

BETAC = .000 STAB-C = -1.000
 RUD-C = .000 BETAO = .000
 ELV-O = .000 AIL-O = .000
 RUD-O = .000 I-ORB = 6.000

RUN NO. 34/ 0 RN/L = 3.44 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ALPHAC	BETA	CPC	CPB1	CPB2	CPB3
.602	3.370	-3.08000	.00000	-.05070	-.17970	-.19300	-.19730
.598	4.470	-2.00000	.00000	-.04700	-.17600	-.18400	-.19440
.602	6.740	.24000	.00000	-.04910	-.18260	-.19290	-.20290
.601	7.850	1.33000	.00000	-.04200	-.18310	-.19650	-.19980
.600	8.990	2.45000	.00000	-.04370	-.18650	-.19050	-.19820
.601	10.110	3.55000	.00000	-.04160	-.19020	-.19450	-.19920
.601	11.220	4.64000	.00000	-.04160	-.19210	-.20140	-.20480
.600	12.330	5.73000	.00000	-.04810	-.19440	-.20640	-.21380
.601	13.430	6.81000	.00000	-.03930	-.19250	-.20650	-.21480
	GRADIENT	.98182	.00000	.00336	.00336	.00818	.00264

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
 LREF = 474.8100 IN.
 BREF = 936.6800 IN.
 SCALE = .0125

XMRP = 1109.0000 IN. XO
 YMRP = .0000 IN. YO
 ZMRP = 375.0000 IN. ZO

PARAMETRIC DATA

BETAC = .000 STAB-C = 5.000
 RUD-C = .000 BETAO = .000
 ELV-O = 5.000 AIL-O = -10.000
 RUD-O = .000 I-ORB = 6.000

RUN NO. 35/ 0 RN/L = 3.46 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ALPHAC	BETA	CPC	CPB1	CPB2	CPB3
.601	3.330	-3.14000	.00000	-.03090	-.19440	-.21000	-.20870
.598	4.470	-2.02000	.00000	-.03050	-.19490	-.21200	-.21700
.599	5.560	-.95000	-.01000	-.02480	-.18840	-.20550	-.20820
.604	6.670	1.15000	-.01000	-.02770	-.18990	-.20740	-.20870
.597	7.830	1.28000	-.01000	-.02950	-.19930	-.21750	-.21440
.599	8.950	2.39000	-.01000	-.02720	-.20260	-.22100	-.22230
.601	10.070	3.48000	.00000	-.02750	-.20400	-.22100	-.22030
.601	11.170	4.56000	-.01000	-.02600	-.20910	-.22580	-.22340
.602	12.320	5.69000	-.01000	-.02210	-.20980	-.22800	-.22600
.601	13.420	6.77000	-.01000	-.02090	-.21270	-.23070	-.22740
	GRADIENT	.98246	.00000	.00035	.00044	.00175	.00728

ARC14-080-1 CA23 747/1 01 AT1 (ORB MATED)

(AESC35) (05 MAY 75)

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(AF9C36) (05 MAY 75) (

PARAMETRIC DATA

BETAC	=	.000	STAB-C	=	5.000
RUD-C	=	.000	BETAO	=	.000
ELV-O	=	5.000	AIL-O	=	.000
RUD-O	=	10.000	I-ORB	=	6.000

RUN NO. 36/ 0 RM/L = 3.36 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ALPHAC	BETA	CPC	CPB1	CPB2	CPB3
.586	3.350	-3.12000	-.01000	-.03180	-.22150	-.23170	-.23460
.595	4.480	-2.01000	-.01000	-.03660	-.22110	-.23690	-.23550
.584	5.580	-.93000	-.01000	-.03130	-.22120	-.23590	-.23960
.584	6.700	1.80000	-.01000	-.02980	-.22070	-.23380	-.23660
.584	7.830	1.29000	-.02000	-.02720	-.21820	-.23090	-.23300
.583	8.920	3.36000	-.02000	-.03440	-.22450	-.23800	-.23300
.582	10.020	3.44000	-.02000	-.03260	-.22360	-.24480	-.23980
.583	11.130	4.54000	-.02000	-.02420	-.23290	-.24730	-.24730
.583	12.250	5.63000	-.02000	-.02150	-.22750	-.24280	-.24490
.581	13.360	6.72000	-.01000	-.02360	-.23430	-.25070	-.25210
GRADIENT		.98230	-.00000	-.00425	-.00035	-.00460	-.00080

(AE9C37) (05 MAY 75)

PARAMETRIC DATA

BETAC	-	.000	STAB-C	-	5.000
RUD-C	-	.000	BETAO	-	.000
ELV-O	-	5.000	AIL-O	-	.000
RUD-O	-	.000	I-ORG	-	8.000

RUN NO. 37/ 0 RN/L = 3.34 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ALPHAC	BETA	CPC	CPB1	CPB2	CPB3
.587	5.340	-3.09300	.01000	.01380	-.20590	-.21150	-.21600
.586	6.480	-1.97000	.01000	.01300	-.20430	-.21170	-.21870
.587	7.620	-.85000	.00000	.02070	-.20190	-.20610	-.21560
.584	8.700	2.1000	.00000	.01220	-.21310	-.22050	-.22650
.585	9.650	1.33000	.01000	.01780	-.20870	-.21720	-.22210
.585	10.960	2.43000	.00000	.02000	-.21330	-.22210	-.22350
.585	12.070	3.51000	.00000	.02440	-.21180	-.22170	-.22700
.584	13.190	4.62000	.00000	.02010	-.22530	-.23440	-.23370
.584	14.300	5.71000	.00000	.01800	-.23240	-.24370	-.24510
.585	15.430	6.81000	.00000	.02220	-.24130	-.25080	-.25470
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000

MARC 14-080-1 CA23 747/1 01 AT1 (ORR MATED)

(AE9C38) (05 MAY 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
 LREF = 474.8100 IN.
 BREF = 936.6800 IN.
 SCALE = .0125

XMRP	=	1109.0000	IN.	X0
YMRP	=	.0000	IN.	Y0
ZMRP	=	375.0000	IN.	Z0

BETAC	-	.000	STAB-C	-	5.000
RUD-C	-	10.000	BETA0	-	.000
ELV-O	-	5.000	AIL-O	-	.000
RUD-O	-	.500	I-ORB	-	8.000

PARAMETRIC DATA

38/ 0	RN/L =	3.46	GRADIENT INTERVAL =	-5.00/	5.00
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MACH	ALPHA	ALPHAC	BETA	CPC	CPB1	CPB2	CPB3
.593	5.380	-3.05000	.05000	.01830	-.19870	-.21280	-.21420
.593	6.500	-1.95000	.04000	.01370	-.20140	-.21310	-.21920
.592	7.600	-.87000	.04000	.01890	-.20090	-.21190	-.21810
.592	8.730	2.3000	.04000	.01820	-.20550	-.21380	-.21760
.590	9.680	1.37000	.04000	.02050	-.20720	-.21590	-.22240
.590	10.980	2.44000	.04000	.01360	-.21780	-.22650	-.23170
.590	12.100	3.54000	.04000	.02120	-.21590	-.22210	-.23050
.590	13.210	4.63000	.04000	.02460	-.22060	-.23450	-.23900
.590	14.330	5.73000	.04000	.02100	-.23310	-.24150	-.24460
.590	15.430	6.81000	.04000	.02470	-.23310	-.24970	-.25490
GRADIENT		.00300	.00000	.00000	.00000	.00000	.00000

ARC14-080-1 CA23 747/1 01 AT1 (ORB MATED)

(AE9C39) (05 MAY 78)

REFERENCE DATA

SREF = 2690.0000 SQ. FT.
 LREF = 474.8100 IN.
 BREF = 936.6800 IN.
 SCALE = .0125

XMRP	=	1109.0000	IN.	X0
YMRP	=	.0000	IN.	Y0
ZMRP	=	375.0000	IN.	Z0

BETAC	=	.000	STAB-C	=	-1.000
RUD-C	=	.000	BETAO	=	.000
ELV-O	=	5.000	AIL-O	=	.000
RUN-O	=	.000	I-ORB	=	8.000

PARAMETRIC DATA

FIN NO	39/ 0	RN/L	3.46	GRADIENT INTERVAL	-5.00/	5.00
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MACH	ALPHA	ALPHAC	BETA	CPC	CPB1	CPB2	CPB3
.600	5.620	-1.84000	.01000	.02550	-.19130	-.19700	-.20510
.600	7.700	-.78000	.01000	.02180	-.19260	-.20070	-.20210
.599	8.850	.35000	.00000	.01960	-.19850	-.21140	-.21170
.600	10.000	1.49000	.00000	.02270	-.19940	-.20650	-.21320
.600	11.100	2.55000	.01000	.02580	-.19850	-.20870	-.21680
.599	12.200	3.63000	.00000	.02120	-.21050	-.21970	-.22550
.598	13.340	4.75000	.00000	.02620	-.21060	-.22140	-.22850
.598	14.450	5.84000	.00000	.02430	-.21920	-.22830	-.23480
.598	15.550	6.92000	.00000	.02280	-.22770	-.24030	-.24750
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000

(AESC40) (05 MAY 75)

ARC14-080-1 CA23 747/1 01 AT1 (ORB MATED)

REFERENCE DATA

SREF = 2690.0000 SQ. FT. XMRP = 1109.0000 IN. XO
 LREF = 474.8100 IN. YMRP = .0000 IN. YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0125

RUN NO. 40/ 0 RN/L = 3.46 GRADIENT INTERVAL = -5.00/ 5.00

MACH .598 .596 .599 .600 .601 .602
 ALPHA 5.520 6.660 7.770 8.900 10.060 11.170
 ALPHAC -2.95000 -1.83000 -1.74000 .36000 1.51000 2.59000
 BETA .01000 .01000 .00000 .00000 .00000 .00000
 CPC .04370 .04370 .04020 .04450 .04760 .04560
 CPB1 -19660 -20040 -20090 -20390 -20460 -20700
 CPB2 -20680 -20790 -21340 -21570 -21360 -21920
 CPB3 -21160 -21030 -22290 -21640 -22390 -22330
 GRADIENT .00000 .00000 .00000 .00000 .00000 .00000

PARAMETRIC DATA

BETAC = .000 STAB-C = -1.000
 RUD-C = .000 BETAO = .000
 ELV-O = 10.000 AIL-O = .000
 RUD-O = .000 I-ORB = 8.000

ARC14-080-1 CA23 747/1 01 AT1 (ORB MATED)

REFERENCE DATA

SREF = 2690.0000 SQ. FT. XMRP = 1109.0000 IN. XO
 LREF = 474.8100 IN. YMRP = .0000 IN. YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0125

RUN NO. 41/ 0 RN/L = 3.45 GRADIENT INTERVAL = -5.00/ 5.00

MACH .600 .599 .599 .600 .601 .603 .601 .602
 ALPHA 5.450 6.600 7.710 8.820 9.950 11.060 12.250 13.310
 ALPHAC -3.02000 -1.89000 -1.80000 .23000 1.40000 2.49000 3.64000 4.68000
 BETA .01000 .00000 .00000 .00000 .00000 .00000 .00000 .00000
 CPC .03770 .03920 .04010 .03950 .04120 .04130 .04290 .04330
 CPB1 -21160 -20930 -21010 -21800 -21750 -22310 -22490 -23330
 CPB2 -22310 -21600 -21890 -22820 -22260 -22750 -23330 -23080
 CPB3 -22720 -22040 -22470 -22920 -22460 -23490 -23670 -23980
 GRADIENT .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000

PARAMETRIC DATA

BETAC = .000 STAB-C = 5.000
 RUD-C = .000 BETAO = .000
 ELV-O = 10.000 AIL-O = .000
 RUD-O = .000 I-ORB = 8.000

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TABULATED SOURCE DATA - CA23A

ARC14-080-1 CA23 747/1 01 AT1 (ORB MATED)

(AE9C42) (05 MAY 75)

REFERENCE DATA

SAC7	-	2639.0000	SQ.FT.	XPRP	-	1109.0000	IN. X0
LAFR	-	474.8100	IN.	YPRP	-	.0000	IN. Y0
BREF	-	936.5800	IN.	ZPRP	-	375.0000	IN. Z0
SCALE	-	.0125					

PARAMETRIC DATA

BETAC	-	.000	STAB-C	-	5.000
RUD-C	-	.000	BETAQ	-	.000
ELV-O	-	5.000	AIL-O	-	-10.000
RUD-O	-	.000	I-ORB	-	8.000

BN NO	42/ 0	BN/1	= 3.42	GRADIENT INTERVAL	= -5.00/ 5.00
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ALPHA	ALPHAC	BETA	CPC	CPB1	CPB2	CPB3
5.390	-3.05000	.00000	.01000	-.19020	-.20870	-.20940
6.490	-1.95000	.00000	.01750	-.18690	-.20610	-.20580
7.600	-.88000	.00000	.00630	-.20090	-.21990	-.22020
8.720	.22000	.00000	.01520	-.19380	-.21770	-.21770
9.900	1.38000	.00000	.01610	-.19860	-.21510	-.21780
10.970	2.43000	.00000	.01790	-.20270	-.22220	-.22450
12.180	3.62000	.00000	.01510	-.21130	-.23120	-.22820
13.220	4.64000	.00000	.01420	-.21660	-.23350	-.23520
14.310	5.70000	.00000	.01670	-.22740	-.24460	-.24020
15.450	6.82000	.00000	.00790	-.24100	-.26140	-.25490
GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000

ABC14-080-1 CA23 747/1 01 AT1 (OR8 MATED)

(AE9C43) (05 MAY 75)

REFERENCE DATA

SREF	=	2690.0000	SQ.FT.	XPRP	=	1109.0000	IN.	XO
LREF	=	474.8100	IN.	YPRP	=	.0000	IN.	YO
BREF	=	936.6800	IN.	ZPRP	=	375.0000	IN.	ZO
SCALE	=	.0125						

PARAMETRIC DATA

BETAC	-	.000	STAB-C	-	5.000
RUD-C	-	.000	BETAO	-	.000
ELV-O	-	.000	AIL-O	-	.000
RUD-O	-	.000	I-ORB	-	8.000

GRN NO 43/ 0 BN/1 = 3.45 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ALPHAC	BETA	CPC	CPB1	CPB2	CPB3
.602	5.310	-3.10000	.01000	-.01530	-.18950	-.19830	-.20300
.598	6.440	-1.99000	.01000	-.01290	-.19310	-.20530	-.21180
.598	7.520	-.93000	.00000	-.01310	-.19810	-.20150	-.21200
.598	8.690	.23000	.00000	-.01330	-.19460	-.21150	-.21870
.604	9.850	1.35000	.00000	-.01320	-.19700	-.20970	-.21670
.602	10.970	2.45000	.00000	-.00670	-.19530	-.20930	-.21670
.601	12.070	3.53000	.00000	-.00960	-.20550	-.22160	-.22370
.601	13.170	4.61000	.00000	-.00710	-.21120	-.22750	-.23170
.601	14.260	5.68000	.00000	-.01010	-.22210	-.23760	-.24230
.599	15.360	6.76000	.00000	-.01190	-.23070	-.24990	-.25740
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000

TABULATED SOURCE DATA - CA23A

ARC14-080-1 CA23 747/1 01 AT1 (ORB MATED)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8100 IN.
BREF = 936.6800 IN.
SCALE = .0125

PARAMETRIC DATA

BETAC = .000
RUD-C = .000
ELV-O = .000
RUD-O = .000

RUN NO. 44/ 0 RN/L = 3.41 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ALPHAC	BETA	CPC	CPB1	CPB2	CPB3
.598	5.400	-3.01000	.01000	-.01340	-.18360	-.19410	-.20050
.598	6.530	-1.90000	.01000	-.01840	-.18730	-.19620	-.20400
.601	7.650	-.80000	.01000	-.00550	-.17980	-.18790	-.19330
.601	8.760	.29000	.00000	-.00560	-.17800	-.19210	-.19950
.601	9.870	1.37000	.00000	-.01410	-.19350	-.20260	-.20630
.602	11.010	2.49000	.00000	-.01150	-.18800	-.20080	-.21030
.601	12.130	3.59000	.00000	-.01240	-.19810	-.21100	-.21840
.602	13.280	4.72000	.00000	-.00700	-.20240	-.21750	-.21960
.601	14.350	5.77000	.00000	-.00490	-.20980	-.22160	-.23070
.599	15.450	6.86000	.00000	-.01040	-.22400	-.24540	-.24300
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000

ARC14-080-1 CA23 747/1 01 AT1 (ORB MATED)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8100 IN.
BREF = 936.6800 IN.
SCALE = .0125

PARAMETRIC DATA

BETAC = .000
RUD-C = .000
ELV-O = .000
RUD-O = .000

RUN NO. 45/ 0 RN/L = 3.43 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ALPHAC	BETA	CPC	CPB1	CPB2	CPB3
.600	1.150	-3.15000	.00000	-.09100	-.19190	-.19970	-.20510
.601	2.270	-2.05000	.00000	-.09600	-.19840	-.20780	-.21190
.601	3.380	-.96000	.00000	-.09510	-.19590	-.20610	-.21380
.602	4.490	.14000	.00000	-.09590	-.20430	-.21030	-.21670
.601	5.560	1.28000	.00000	-.10110	-.20710	-.21290	-.21960
.602	6.760	2.37000	-.01000	-.09800	-.20430	-.21000	-.21940
.602	7.900	3.49000	-.01000	-.09490	-.20660	-.21240	-.21840
.603	9.010	4.57000	-.01000	-.09180	-.20470	-.21140	-.21880
.602	10.110	5.66000	-.01000	-.08840	-.20290	-.21400	-.22150
.601	11.210	6.74000	-.01000	-.08660	-.20590	-.21600	-.22000
	GRADIENT	.98472	.00000	-.00124	-.00312	-.00271	-.00330

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TABULATED SOURCE DATA - CA23A

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ARC14-080-1 CA23 747/1 01 AT1 (ORB MATED)

(AESC46) (05 MAY 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1109.0000 IN. XO
 LREF = 474.8100 IN. YMRP = .0000 IN. YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0125

BETAC = .000 STAB-C = 5.000
 RUO-C = .000 BETAO = .000
 ELV-O = .000 AIL-O = .000
 RUO-O = .000 I-ORB = 4.000

PARAMETRIC DATA

RUN NO. 46/ 0 RN/L = 3.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ALPHAC	BETA	CPC	CPB1	CPB2	CPB3
.598	1.080	-3.23000	.00000	-1.0500	-21570	-22110	-22480
.596	2.540	-1.79000	.00000	-1.0310	-21700	-22620	-23060
.595	3.330	-1.01000	.00000	-1.1000	-22180	-22580	-23430
.596	4.440	.09000	-0.1000	-1.0350	-21590	-22500	-23150
.537	5.860	1.18000	-0.1000	-1.0330	-21600	-22380	-23050
.596	6.660	2.27000	-0.1000	-1.0270	-21760	-22680	-23190
.595	7.810	3.40000	-0.1000	-1.0030	-22000	-22360	-23360
.596	8.900	4.47000	-0.1000	-0.9540	-21640	-22180	-23020
.595	10.000	5.56000	-0.1000	-0.9530	-21890	-22670	-23250
.594	11.120	6.65000	-0.1000	-0.9420	-21790	-22910	-23730
GRADIENT		.98797	-.00266	.00000	-.00048	-.00115	-.00225

ARC14-080-1 CA23 747/1 01 AT1 (ORB MATED)

(AESC47) (05 MAY 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1109.0000 IN. XO
 LREF = 474.8100 IN. YMRP = .0000 IN. YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0125

BETAC = .000 STAB-C = 5.000
 RUO-C = .000 BETAO = .000
 ELV-O = 5.000 AIL-O = .000
 RUO-O = .000 I-ORB = 4.000

PARAMETRIC DATA

RUN NO. 47/ 0 RN/L = 3.52 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ALPHAC	BETA	CPC	CPB1	CPB2	CPB3
.602	1.150	-3.19000	.00000	-.06890	-.22090	-.22790	-.23020
.602	2.270	-2.09000	.00000	-.06430	-.21140	-.21770	-.22600
.601	3.440	-.94000	.00000	-.06880	-.21450	-.21820	-.22680
.600	4.540	.15000	-0.1000	-.06700	-.21720	-.22090	-.22950
.600	5.660	1.25000	.00000	-.06840	-.21890	-.22660	-.23230
.601	6.780	2.35000	-0.1000	-.05820	-.21040	-.20370	-.22470
.601	7.860	3.42000	-0.1000	-.05660	-.21150	-.21410	-.22380
.599	8.970	4.51000	-0.1000	-.06100	-.22000	-.22640	-.23140
.600	10.110	5.63000	-0.1000	-.05480	-.21120	-.21760	-.22660
.600	11.200	6.70000	-0.1000	-.05160	-.21110	-.21640	-.22410
GRADIENT		.98499	-.00263	.00009	.00070	.00181	.00012

DATE 13 NOV 75 . TABULATED SOURCE DATA - CA23A (AF9C48) (05 MAY 75)
ARC14-080-1 CA23 747/1 01 AT1 (ORR MATED)

REFERENCE DATA

SNET	=	2690.0000	SQ.FT.	XAPP	=	1109.0000	IN.	XO
LEAF	=	474.8100	IN.	YAPP	=	.0000	IN.	YO
SREF	=	936.6800	IN.	ZAPP	=	375.0000	IN.	ZO
SCALE	=	.0125						

BETAC	-	.000	STAB-C	-	5.000
RUD-C	-	10.000	BETAO	-	.000
ELV-O	-	5.000	AIL-O	-	.000
RUD-O	-	.000	1-ORR	-	4.000

PARAMETRIC DATA

RUN NO. 48/ 0 RN/L = 3.50 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA	ALPHA	BETA	CPC	CPB1	CPB2	CPB3
1.160	-3.18000	.04000	-.06410	-.21220	-.21620	-.22150
2.260	-2.09000	.03000	-.06560	-.21140	-.22040	-.22410
3.390	-.98000	.03000	-.06750	-.21260	-.21800	-.22400
4.530	1.14000	.03000	-.06220	-.20670	-.21330	-.21070
5.620	1.21000	.03000	-.05920	-.21170	-.21740	-.22200
6.750	2.32000	.03000	-.06330	-.21270	-.22270	-.22570
7.880	3.44000	.03000	-.06250	-.21400	-.22070	-.22070
8.990	4.53000	.03000	-.05870	-.21160	-.21960	-.22520
10.080	5.60000	.03000	-.05140	-.20900	-.21530	-.22070
11.210	6.71000	.03000	-.05170	-.21490	-.22390	-.22930
GRADIENT	99486	-.00265	-.00338	-.00137	-.00100	-.00077

ARC14-080-1 CA23 747/1 01 AT1 (ORB MATED) (AE9C49) (05 MAY 75)

REFERENCE DATA

SREF	-	2690.0000	SQ.FT.	XAPP	-	1109.0000	IN.	XO
LNRF	-	474.8100	IN.	YAPP	-	.0000	IN.	YO
BREF	-	936.6800	IN.	ZAPP	-	375.0000	IN.	ZO
SCALE	-	.0125						

BETAC	-	.000	STAB-C	-	-1.000
RUD-C	-	.000	BETA0	-	.000
ELV-0	-	5.000	AIL-0	-	.000
RUD-0	-	.000	I-ORB	-	4.000

PARAMETRIC DATA

RUN NO.	49/ 0	RN/L =	3.41	GRADIENT INTERVAL =	-5.00/	5.00
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MACH	ALPHA	ALPHAC	BETA	CPC	CPB1	CPB2	CPB3
597	1.210	-3.13000	.00000	-.06800	-.20200	-.21010	-.21550
600	2.340	-2.02000	.00000	-.07050	-.20490	-.21890	-.22220
604	3.480	-.90000	.00000	-.06160	-.20100	-.20630	-.20890
603	4.610	2.2000	.00000	-.06330	-.20200	-.20780	-.21370
601	5.730	1.32000	.01000	-.06140	-.20240	-.21100	-.22100
603	6.880	2.45000	-.01000	-.05930	-.20010	-.20700	-.21330
603	7.930	3.54000	-.01000	-.05780	-.20330	-.20660	-.21160
603	9.060	4.60400	.01000	-.05230	-.19970	-.20760	-.20860
603	10.140	5.65000	.01000	-.05230	-.20380	-.20980	-.21640
603	11.270	6.77000	.01000	-.04970	-.19980	-.21000	-.21800
CRADIENT		989501	.00000	-.00203	-.00082	-.00173	-.00165

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TABULATED SOURCE DATA - CA23A

ARC14-080-1 CA23 747/1 01 AT1 (ORB MATED)

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(AESC50) (05 MAY 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1109.0000 IN. XO
LREF = 474.8100 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0125

RUN NO. 50/ 0 RN/L = 3.44 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ALPHAC	BETA	CPC	CPB1	CPB2	CPB3
.603	1.310	-3.06000	.00000	-.04310	-.21360	-.21890	-.22280
.601	2.420	-1.97000	.00000	-.04850	-.21780	-.22180	-.22650
.604	3.520	-.88000	.00000	-.04190	-.21740	-.21770	-.22600
.604	4.710	.28000	.00000	-.04290	-.21570	-.21960	-.22430
.604	5.820	1.38000	.00000	-.03670	-.21030	-.21400	-.22060
.604	6.940	2.48000	.00000	-.03170	-.20660	-.21520	-.22080
.604	8.100	3.62000	-.01000	-.03640	-.21810	-.22150	-.22150
.603	9.190	4.69000	-.01000	-.03280	-.21220	-.21690	-.22480
.603	10.220	5.70000	-.01000	-.03150	-.21130	-.21730	-.22390
.604	11.340	6.81000	-.01000	-.03120	-.21670	-.22470	-.22970
.603	GRADIENT	.98314	.00000	.00064	-.00051	.00017	-.00034

PARAMETRIC DATA

BETAC = .000 STAB-C = -1.000
RUD-C = .000 BETAO = .000
ELV-O = 10.000 AIL-O = .000
RUD-O = .000 I-ORB = 4.000

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1109.0000 IN. XO
LREF = 474.8100 IN. YMRP = .0000 IN. YO
BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
SCALE = .0125

RUN NO. 51/ 0 RN/L = 3.41 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ALPHAC	BETA	CPC	CPB1	CPB2	CPB3
.593	1.220	-3.15000	.00000	-.04570	-.22420	-.23060	-.23760
.602	2.280	-2.10000	.00000	-.03920	-.21980	-.22310	-.22710
.603	3.400	-1.00000	.00000	-.04160	-.21900	-.22560	-.23060
.601	4.520	.11000	.01000	-.04070	-.22180	-.22580	-.22940
.601	5.680	1.24000	.01000	-.04500	-.22670	-.23300	-.23940
.601	6.840	2.38000	.01000	-.03960	-.22330	-.22670	-.23630
.601	7.910	3.43000	.01000	-.03680	-.22510	-.23210	-.23480
.602	9.020	4.53000	.01000	-.03350	-.22400	-.22760	-.23030
.602	10.160	5.64000	.01000	-.03690	-.22500	-.23390	-.23830
.602	11.250	6.71000	.01000	-.02910	-.22100	-.22860	-.23650
.603	GRADIENT	.98729	-.00364	.00112	.00071	.00105	.00188

ARC14-080-1 CA23 747/1 01 AT1 (ORB MATED)

(AESC51) (05 MAY 75)

PARAMETRIC DATA

BETAC = .000 STAB-C = 5.000
RUD-C = .000 BETAO = .000
ELV-O = 10.000 AIL-O = .000
RUD-O = .000 I-ORB = 4.000

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TABULATED SOURCE DATA - CA23A

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ARC14-080-1 CA23 747/1 01 AT1 (ORB MATED)

(AESC52) (05 MAY 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
 LREF = 474.8100 IN.
 BREF = 936.6800 IN.
 SCALE = .0125

YMRP = 1109.0000 IN. XO
 YMRP = .0000 IN. YO
 ZMRP = 375.0000 IN. ZO

PARAMETRIC DATA

BETAC = .000 STAB-C = 5.000
 RUO-C = .000 BETAO = .000
 ELV-O = 5.000 AIL-O = -10.000
 RUO-O = .000 I-ORB = 4.000

RUN NO. 52/ 0 RN/L = 3.44 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ALPHAC	BETA	CPC	CPB1	CPB2	CPB3
.602	2.230	-2.11000	.00000	-.07220	-.20960	-.21660	-.21760
.601	4.480	.10000	-.01000	-.06650	-.20290	-.21560	-.21720
.601	6.750	2.34000	-.01000	-.06830	-.21360	-.22320	-.22360
.603	8.930	4.48000	-.01000	-.06360	-.20760	-.22220	-.22360
.603	11.230	6.73000	-.01000	-.06360	-.21360	-.22820	-.22890
GRADIENT	.98222	.98222	-.00444	.00253	.00298	.00044	.00018

ARC14-080-1 CA23 747/11-S1-S12101 AT1(ORB MATED)

(AESC53) (05 MAY 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
 LREF = 474.8100 IN.
 BREF = 936.6800 IN.
 SCALE = .0125

YMRP = 1109.0000 IN. XO
 YMRP = .0000 IN. YO
 ZMRP = 375.0000 IN. ZO

PARAMETRIC DATA

BETAC = .000 STAB-C = 5.000
 RUO-C = .000 BETAO = .000
 ELV-O = 5.000 AIL-O = .000
 RUO-O = .000 I-ORB = 6.000

RUN NO. 53/ 0 RN/L = 3.45 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ALPHAC	BETA	CPC	CPB1	CPB2	CPB3
.600	3.430	-3.04000	.00000	-.03400	-.20280	-.20980	-.21210
.602	4.600	-1.89000	.00000	-.02930	-.20330	-.20860	-.21320
.601	5.720	-.79000	-.01000	-.03400	-.20800	-.21940	-.22210
.602	6.850	.33000	.00000	-.03260	-.20810	-.21400	-.21700
.601	7.950	1.40000	.00000	-.03090	-.20920	-.21720	-.22090
.602	9.070	2.50000	.00000	-.02720	-.20710	-.21470	-.22140
.602	10.190	3.60000	.00000	-.02420	-.20640	-.21340	-.21970
.602	11.310	4.70000	-.01000	-.02790	-.21910	-.22380	-.22980
.602	12.400	5.77000	-.01000	-.01760	-.22550	-.22250	-.22620
.602	13.550	6.90000	-.01000	-.01590	-.22580	-.23410	-.23540
GRADIENT	.98290	.98290	.00000	.00402	.00043	.00103	.00094

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TABULATED SOURCE DATA - CA23A

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ARC14-080-1 CA23 747/1(-S1-S12)01 AT1(ORB MATED)

(AE9C54) (05 MAY 75)

REFERENCE DATA

-	SREF	2690.0000	SQ.FT.	XPRP	=	1109.0000	IN.	XO
-	LREF	474.8100	IN.	YPRP	=	.0000	IN.	YO
-	BREF	936.6800	IN.	ZPRP	=	375.0000	IN.	ZO
-	SCALE					.0125		

PARAMETRIC DATA

BETAC	-	.000	STAB-C	-	5.000
RUD-C	-	.000	BETA0	-	.000
ELV-O	-	5.000	AIL-O	-	.000
RUD-O	-	.000	I-ORB	-	8.000

RM NO	54/ 0	RN/L =	3.44	GRADIENT INTERVAL =	-5.00/	5.00
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[illegible]

REFERENCE DATA

SREF	=	2690.0000	SQ.FT.	YARP	=	1109.0000	IN.	XO
LREF	=	474.8100	IN.	YARP	=	.0000	IN.	YO
BREF	=	936.6800	IN.	ZARP	=	375.0000	IN.	ZO
SCALE	=	.0125						

(AE9C55) (05 MAY 75)

PARAMETRIC DATA

BETAC	-	.000	STAB-C	-	5.000
RUD-C	-	.000	BETA0	-	.000
ELV-O	-	5.000	AIL-O	-	.000
RIN-O	-	.000	I-ORB	-	8.000

GRAN NO	SS/ 0	RN/1	3 47	GRADIENT INTERVAL =	-5.00/	5.00
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MACH	ALPHA	ALPHAC	BETA	CPC	CPB1	CPB2	CPB3
6.04	6.620	-1.83000	.00000	.01260	-.19050	-.20310	-.20840
6.02	8.830	.34000	.00000	.01230	-.19780	-.21150	-.21120
6.03	11.150	2.61000	.00000	.02680	-.19700	-.20320	-.22230
6.03	13.41C	4.82000	.00000	.03330	-.21070	-.22330	-.22230
15.600		6.96000	.00000	.04150	-.22370	-.23560	-.23660
GRADIENT			.00000	.00700	.00000	.00000	.00000

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TABULATED SOURCE DATA - CA23A

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ARC14-080-1 CA23 747/1 (-S1-S12103 AT1(ORR MATED))

(AEC56) (05 MAY 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1109.0000 IN. X0
 LREF = 474.8100 IN. YMRP = .0000 IN. Y0
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
 SCALE = .0125

BETAC = .000 STAB-C = -1.000
 RUO-C = .000 BETAO = .000
 ELV-O = 5.000 AIL-O = .000
 RUO-O = .000 I-ORR = 4.000

PARAMETRIC DATA

RUN NO. 56/ 0 RN/L = 3.33 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ALPHAC	BETA	CPC	CPB1	CPB2	CPB3
.590	1.410	-2.93000	.01000	-.08810	-.08430	-.08230	-.08300
.590	2.510	-1.84000	.00000	-.08460	-.08490	-.07700	-.07740
.591	3.610	-.76000	.00000	-.08480	-.08310	-.07730	-.07900
.590	4.750	.36000	.00000	-.08300	-.08160	-.07820	-.07680
.590	5.850	1.45000	.00000	-.08050	-.08460	-.07610	-.07910
.590	6.960	2.54000	.00000	-.07660	-.07900	-.06970	-.07180
.589	8.080	3.64000	.00000	-.08180	-.08700	-.08010	-.07830
.588	9.180	4.73000	.00000	-.07580	-.07680	-.06860	-.07170
.588	10.290	5.81000	.00000	-.07470	-.07610	-.06890	-.07030
.588	11.410	6.92000	.00000	-.06950	-.07090	-.06470	-.06580
GRADIENT		.98470	-.00268	.00136	.00089	.00107	.00153

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1109.0000 IN. X0
 LREF = 474.8100 IN. YMRP = .0000 IN. Y0
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. Z0
 SCALE = .0125

BETAC = .000 STAB-C = -1.000
 RUO-C = .000 BETAO = .000
 ELV-O = 5.000 AIL-O = .000
 RUO-O = .000 I-ORR = 4.000

PARAMETRIC DATA

ARC14-080-1 CA23 747/1 03 AT1 (ORR MATED)

(AEC57) (05 MAY 75)

RUN NO. 57/ 0 RN/L = 3.41 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ALPHAC	BETA	CPC	CPB1	CPB2	CPB3
.591	1.270	-3.08000	.01000	-.07000	-.06860	-.06590	-.06490
.589	2.370	-1.99000	.00000	-.07410	-.08060	-.07170	-.07100
.589	3.510	-.87000	.01000	-.07400	-.07540	-.07020	-.07020
.589	4.610	.21000	.00000	-.07720	-.07890	-.07480	-.07240
.590	5.740	1.32000	.00000	-.07310	-.07070	-.06930	-.07100
.589	6.870	2.43000	.00000	-.07430	-.07810	-.06950	-.06950
.589	7.970	3.52000	.00000	-.06310	-.07190	-.06530	-.06090
.588	9.080	4.61000	.00000	-.07070	-.07410	-.06650	-.06480
.588	10.180	5.69000	.00000	-.06720	-.06750	-.05820	-.05930
.586	11.230	6.79000	.00000	-.06680	-.06680	-.06260	-.06060
GRADIENT		.98476	-.00177	-.00192	-.00255	-.00225	-.00194

ARC14-080-1 CA23 747/1 (-S1-S12)03 AT1(ORB MATED)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1109.0000 IN. XO
 LREF = 474.8100 IN. YMRP = .0000 IN. YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0125

RUN NO. 58/ 0 RN/L = 3.43 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ALPHAC	BETA	CPC	CPB1	CPB2	CPB3
.595	1.290	-3.0200	.00000	-.10550	-.10280	-.10280	-.09910
.593	2.430	-1.89000	.00000	-.10770	-.10500	-.10500	-.10360
.593	3.550	-.78000	.00000	-.10390	-.10660	-.09670	-.09840
.592	4.680	.32000	.00000	-.10300	-.09890	-.09450	-.09790
.590	5.820	1.45000	.00000	-.10720	-.10890	-.09970	-.09970
.590	6.910	2.53000	.00000	-.10370	-.10060	-.09550	-.09550
.590	8.040	3.63000	.00000	-.09920	-.10330	-.09680	-.09720
.591	9.130	4.71000	.00000	-.09960	-.09760	-.09280	-.09180
.591	10.210	5.77000	.00000	-.09440	-.09880	-.08920	-.08960
.590	11.320	6.86000	.00000	-.09500	-.09810	-.08920	-.08850
GRADIENT		.98583	.00000	.00100	.00188	.00293	.00077

BETAC =
 RUD-C =
 ELV-O =
 RUD-O =

STAB-C = -1.000
 BETAO = .000
 AIL-O = .000
 I-ORB = 4.000

PARAMETRIC DATA

ARC14-080-1 CA23 747/1 03 AT1 (ORB MATED)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1109.0000 IN. XO
 LREF = 474.8100 IN. YMRP = .0000 IN. YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0125

RUN NO. 59/ 0 RN/L = 3.41 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ALPHAC	BETA	CPC	CPB1	CPB2	CPB3
.589	2.320	-2.01000	.00000	-.09640	-.10060	-.09160	-.09060
.589	4.530	.17000	.00000	-.09910	-.09910	-.08710	-.09090
.589	6.770	2.38000	.00000	-.09660	-.09900	-.09320	-.09040
.589	9.010	4.58000	.00000	-.09020	-.08980	-.08230	-.08540
.589	11.180	5.72000	.00000	-.08680	-.08610	-.07920	-.07390
GRADIENT		.98643	.00000	-.00122	.00068	.00204	-.00014

BETAC =
 RUD-C =
 ELV-O =
 RUD-O =

STAB-C = -1.000
 BETAO = .000
 AIL-O = .000
 I-ORB = 4.000

PARAMETRIC DATA

DATE 13 NOV 75

TABULATED SOURCE DATA - CAP3A

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ARC14-080-1 CA23 747/1 03 AT1 (ORB MATED)

(AESC60) (05 MAY 75)

REFERENCE DATA

SREF = 290.0000 SQ.FT. XMRP = 1109.0000 IN. XO
 LREF = 474.8100 IN. YMRP = .0000 IN. YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0125

PARAMETRIC DATA

BETAC = .000 STAB-C = -1.000
 RUD-C = .000 BETAO = .000
 ELV-O = .000 AIL-O = .000
 RUD-O = .000 I-ORB = 6.000

RUN NO. 60/ 0 RN/L = 3.40 GRADIENT INTERVAL = -5.00/ 5.00

MACH

ALPHA 6.780
 ALPHAC 2.4000
 BETA .0000
 BETA 2.4000
 ALPHA 11.210
 ALPHAC 4.6300
 BETA .0000
 BETA 6.8200
 ALPHA 13.430
 ALPHAC 6.8200
 BETA .0000
 BETA .0000

CPC -.06250
 CPC -.06370
 CPC -.06300
 CPC -.05450
 CPC .00000
 CPC .00000

CPB2 -.06010
 CPB2 -.05890
 CPB2 -.05750
 CPB2 -.05140
 CPB2 .73000

CPB3
 -.05770
 -.05890
 -.06060
 -.05350
 .00000

ARC14-080-1 CA23 747/1 03 AT1 (ORB MATED)

(AESC61) (05 MAY 75)

REFERENCE DATA

SREF = 2630.0000 SQ.FT. XMRP = 1109.0000 IN. XO
 LREF = 474.8100 IN. YMRP = .0000 IN. YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0125

PARAMETRIC DATA

BETAC = -5.000 STAB-C = -1.000
 RUD-C = .000 BETAO = -5.000
 ELV-O = .000 AIL-O = .000
 RUD-O = .000 I-ORB = 4.000

RUN NO. 61/ 0 RN/L = 3.45 GRADIENT INTERVAL = -5.00/ 5.00

MACH

ALPHA 1.210
 ALPHAC -3.11000
 BETA -5.18000
 BETA -2.03000
 ALPHA 2.310
 ALPHAC -.92000
 BETA -5.17000
 BETA 1.8000
 ALPHA 4.550
 ALPHAC 1.33000
 BETA -5.15000
 BETA 3.50000
 ALPHA 7.930
 ALPHAC 4.64000
 BETA -5.11000
 BETA 5.71000
 ALPHA 10.170
 ALPHAC 6.85000
 BETA -5.07000
 BETA .00171

CPC -.05910
 CPC -.05930
 CPC -.06010
 CPC -.06520
 CPC -.06520
 CPC -.06350
 CPC -.06050
 CPC -.05750
 CPC -.05690
 CPC -.05750
 CPC -.06600
 CPC -.06440
 CPC -.06270
 CPC -.00171

CPB2 -.05740
 CPB2 -.05000
 CPB2 -.05250
 CPB2 -.05510
 CPB2 -.05910
 CPB2 -.06020
 CPB2 -.05750
 CPB2 -.05460
 CPB2 -.06020
 CPB2 -.05490
 CPB2 -.05870
 CPB2 -.05630
 CPB2 -.00188

CPB3
 -.05100
 -.05220
 -.05340
 -.05750
 -.05950
 -.05510
 -.05750
 -.05460
 -.06020
 -.05490
 -.05870
 -.05630
 -.00188

TABULATED SOURCE DATA - CA23A
 202 1 0027 21711-51-512103 AT1088 MATED)

SAEF = 2690.0000 SQ. FT.
LAEF = 474.8100 IN.
BAEF = 936.6800 IN.
SCALE = .0125

BN NO. 62/0

1.42 GRADIENT INTERVAL = -5.00/ 5.00

HACH

ALPHA ALPHA PHAC

06770
CPC

	CPB2	CPB3
1	-05490	-05730
2	-05820	-05950
3	-06570	-06340
4	-06430	-06400
5	-06520	-06820
6	-06460	-05570
7	-05760	-05560
8	-06100	-06100
9	-05860	-05800
10	-05480	-05250
11	-00357	-00213

(AF9063) (05 MAY 75)

SREF • 2690.0000 SQ. FT.
 LREF • 474.8100 IN.
 BREF • 936.6800 IN.
 SCALE • .0125

XMRP	=	1109.0000	IN.	X0
YMRP	=	.0000	IN.	Y0
ZMRP	=	375.0000	IN.	Z0

FILE NO. 63/ 0

3.42 GRADIENT INTERVAL = -5.00/ 5.00

MACH

ALPHA ALPHA PHAC

CPC
03780

CPB2	CPB3
22150	22900
22360	22730
22300	22440
22890	23840
23830	24270
23340	23750
23280	24190
22190	24890
24300	24810
24820	25370
.00000	.00000

GRADIENT
15.620

DATE 13 NOV 75

TABULATED SOURCE DATA - CA23A

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ARC14-080-1 CA23 747/11-S1-S12101 AT1(ORB MATED)

(AESC64) (05 MAY 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1109.0000 IN. XO
 LREF = 474.8100 IN. YMRP = .0000 IN. YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0125

PARAMETRIC DATA

BETAC = -5.000 STAB-C = 5.000
 RUO-C = .000 BETAO = -5.000
 ELV-O = 5.000 AIL-O = .000
 RUO-O = .000 I-ORB = 6.000

RUN NO. 64/ 0 RN/L = 3.45 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ALPHAC	BETA	CPC	CPB1	CPB2	CPB3
.596	3.490	-3.00000	-5.18000	.02830	-.23230	-.23500	-.23500
.595	4.590	-1.92000	-5.17000	.03090	-.22920	-.23220	-.23220
.593	5.750	-1.77000	-5.16000	.02640	-.23700	-.23810	-.24080
.593	6.880	.34000	-5.15000	.03450	-.22960	-.23340	-.23710
.593	7.960	1.41000	-5.13000	.02970	-.23610	-.23470	-.24220
.593	9.130	2.55000	-5.12000	.03430	-.23440	-.24090	-.24260
.592	10.230	3.64000	-5.10000	.03400	-.23680	-.24200	-.24680
.592	11.360	4.74000	-5.08000	.03810	-.23500	-.24280	-.24520
.591	12.460	5.82000	-5.06000	.04140	-.23660	-.24380	-.24760
.590	13.580	6.93000	-5.04000	.03590	-.24330	-.24850	-.25300
	GRADIENT	.98182	.00909	.00236	.00282	.00255	.00255

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1109.0000 IN. XO
 LREF = 474.8100 IN. YMRP = .0000 IN. YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0125

PARAMETRIC DATA

BETAC = -5.000 STAB-C = 5.000
 RUO-C = .000 BETAO = -5.000
 ELV-O = 5.000 AIL-O = .000
 RUO-O = .000 I-ORB = 6.000

RUN NO. 65/ 0 RN/L = 3.48 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ALPHAC	BETA	CPC	CPB1	CPB2	CPB3
.604	3.380	-3.12000	-5.18000	.03570	-.22650	-.23110	-.23580
.604	4.540	-1.97000	-5.17000	.04090	-.22580	-.22780	-.23240
.603	5.650	-.89000	-5.16000	.04650	-.22540	-.22610	-.22870
.602	6.760	.20000	-5.16000	.04480	-.22710	-.22810	-.23240
.602	7.880	1.31000	-5.14000	.04510	-.22780	-.22980	-.23310
.601	9.000	2.42000	-5.12000	.04300	-.23160	-.23730	-.24030
.600	10.130	3.52000	-5.10000	.04110	-.23490	-.23530	-.24910
.601	11.280	4.65000	-5.09000	.04220	-.23680	-.23980	-.24920
.601	12.380	5.73000	-5.07000	.04520	-.23660	-.24160	-.24760
.602	13.520	6.86000	-5.04000	.04650	-.23390	-.24330	-.25030
	GRADIENT	.99138	.00862	.00448	.00060	.00284	.00293

ARC14-080-1 CA23 747/1 01 AT1 (ORB MATED)

(AESC65) (05 MAY 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.

LREF = 474.8100 IN.

BREF = 936.6800 IN.

SCALE = .0125

ARC14-080-1 CA23 747/1 01 AT1 (ORB MATED)

RUN NO. 66/ 0

RN/L = 3.48

GRADIENT INTERVAL = -5.00/ 5.00

PARAMETRIC DATA

BETAC = -5.000

RUD-C = .000

ELV-O = 5.000

RUD-O = .000

STAB-C = 5.000

BETAO = -5.000

AIL-O = .000

I-ORB = 4.000

ALPHA

ALPHAC

BETA

CPC

CPB1

CPB2

CPB3

GRADIENT

1.190

-3.16000

-5.18000

-.00370

-.22430

-.23140

-.23610

2.330

-2.04000

-5.19000

-.00970

-.23070

-.24150

3.440

-.94000

-5.18000

-.00770

-.23250

-.23020

-.23020

-.23020

-.23020

-.23020

-.23020

4.560

.16000

-5.16000

-.00300

-.23190

-.24170

5.690

1.27000

-5.16000

-.00560

-.23530

-.24730

6.820

2.39000

-5.15000

-.00870

-.24190

-.24770

7.920

3.46000

-5.14000

-.00200

-.23830

-.25320

8.820

4.59000

-5.12000

-.00310

-.24350

-.24990

9.070

5.68000

-5.10000

-.00200

-.24020

-.24970

10.170

6.79000

-5.08000

-.00080

-.24460

11.300

6.98573

-5.00000

-.00013

-.00028

REFERENCE DATA

SREF = 2690.0000 SQ.FT.

LREF = 474.8100 IN.

BREF = 936.6800 IN.

SCALE = .0125

ARC14-080-1 CA23 747/1 01 AT1 (ORB MATED)

RUN NO. 67/ 0

RN/L = 3.47

GRADIENT INTERVAL = -5.00/ 5.00

PARAMETRIC DATA

BETAC = -5.000

RUD-C = .000

ELV-O = 5.000

RUD-O = .000

STAB-C = 5.000

BETAO = -5.000

AIL-O = .000

I-ORB = 8.000

ALPHA

ALPHAC

BETA

CPC

CPB1

CPB2

CPB3

GRADIENT

5.390

-3.07000

-5.16000

.09110

-.21320

-.23460

-.23560

6.550

-1.93000

-5.15000

.08990

-.21580

-.22050

7.650

-.84000

-5.14000

.08750

-.21990

-.22320

-.22620

-.22620

-.22620

-.22620

-.22620

8.770

.26000

-5.13000

.08530

-.22750

-.23390

9.930

1.39000

-5.11000

.08340

-.22490

-.24440

11.020

2.46000

-5.09000

.08910

-.23800

-.23950

12.160

3.58000

-5.07000

.09050

-.24170

-.24680

13.290

4.69000

-5.04000

.09140

-.24300

-.25250

14.400

5.79000

-5.02000

.08340

-.25050

15.510

6.89000

-5.00000

.00000

.00000

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TABULATED SOURCE DATA - CA23A

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ARC14-080-1 CA23 747/1 01 AT2 (ORB MATED)

(AESC68) (05 MAY 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1109.0000 IN. XO
 LREF = 474.8100 IN. YMRP = .0000 IN. YO
 BRUF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0125

PARAMETRIC DATA

BETAC = -5.000 STAB-C = 5.000
 RUO-C = .000 BETAO = -5.000
 ELV-O = 5.000 AIL-O = .000
 RUO-O = .000 I-ORB = 6.000

RUN NO. 68/ 0 RN/L = 3.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ALPHAC	BETA	CPC	CPB1	CPB2	CPB3
.599	3.370	-3.11000	-5.15000	.07090	-.22610	-.22370	-.23180
.601	4.570	-1.93000	-5.15000	.08190	-.21390	-.21960	-.21690
.599	5.660	-.86000	-5.14000	.07560	-.23070	-.22930	-.23910
.597	6.760	.23000	-5.13000	.07560	-.23050	-.23020	-.23770
.603	7.920	1.37000	-5.12000	.07840	-.23660	-.23620	-.24190
.603	8.980	2.41000	-5.10000	.08240	-.23520	-.23390	-.24290
.601	10.130	3.54000	-5.08000	.08770	-.24240	-.24340	-.25010
.602	11.280	4.67000	-5.06000	.08540	-.23700	-.23900	-.24570
.602	12.360	5.73000	-5.05000	.08450	-.23770	-.23900	-.25320
.601	13.520	6.87000	-5.02000	.08770	-.24110	-.24450	-.25530
	GRADIENT	.98333	.00000	.00917	.01017	.00342	.01242

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1109.0000 IN. XO
 LREF = 474.8100 IN. YMRP = .0000 IN. YO
 BRUF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0125

PARAMETRIC DATA

BETAC = -5.000 STAB-C = 5.000
 RUO-C = .000 BETAO = -5.000
 ELV-O = 5.000 AIL-O = .000
 RUO-O = .000 I-ORB = 6.000

ARC14-080-1 CA23 747/1 01 AT3 (ORB MATED)

(AESC69) (05 MAY 75)

RUN NO. 69/ 0 RN/L = 3.43 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ALPHAC	BETA	CPC	CPB1	CPB2	CPB3
.598	3.430	-3.06000	-5.16000	.05350	-.21850	-.22120	-.22360
.598	4.560	-1.94000	-5.15000	.05410	-.22380	-.22480	-.22860
.601	5.660	-.87000	-5.15000	.04500	-.23560	-.23960	-.24130
.602	6.760	.22000	-5.14000	.05310	-.23050	-.23220	-.23180
.602	7.910	1.34000	-5.12000	.05740	-.22730	-.23400	-.23630
.598	9.010	2.43000	-5.11000	.05640	-.22970	-.23540	-.23780
.599	10.120	3.52000	-5.09000	.05910	-.23250	-.23760	-.24130
.599	11.240	4.62000	-5.07000	.05880	-.23630	-.23670	-.24550
.600	12.350	5.71000	-5.05000	.06170	-.22880	-.23520	-.24320
.601	13.490	6.83000	-5.03000	.05810	-.23850	-.24530	-.25270
	GRADIENT	.99115	.00885	.00053	-.00469	-.00319	-.00442

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TABULATED SOURCE DATA - CA23A

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(AE9C70) (05 MAY 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1109.0000 IN. XO
 LREF = 474.6100 IN. YMRP = .0000 IN. YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0125

RUN NO. 70/ 0 RN/L = 3.48 GRADIENT INTERVAL = -5.00/ 5.00

PARAMETRIC DATA

BETAC = .000 STAB-C = 5.000
 RUD-C = .000 BETAO = .000
 ELV-O = 5.000 AIL-O = .000
 RUD-O = .000 I-ORB = 6.000

MACH	ALPHA	ALPHAC	BETA	CPC	CPB1	CPB2	CPB3
.599	3.650	-2.84000	.00000	-.01030	-.20220	-.20960	-.21840
.598	4.730	-1.77000	.00000	-.01020	-.20470	-.20770	-.21280
.597	5.840	-.68000	.00000	-.01480	-.21350	-.21480	-.22020
.600	6.960	.42000	.00000	-.00840	-.20790	-.20850	-.21830
.601	8.140	1.57000	.00000	-.00450	-.20250	-.20750	-.21460
.599	9.240	2.66000	.00000	-.00480	-.20680	-.21090	-.22240
.599	10.330	3.73000	.00000	-.00520	-.21280	-.22020	-.22460
.599	11.440	4.82000	.00000	-.00170	-.21600	-.22100	-.22850
.601	12.560	5.92000	.00000	.00460	-.21670	-.22140	-.23080
.599	13.710	7.04000	-.01000	.00560	-.21960	-.22400	-.23510
	GRADIENT	.99074	.00000	.00009	-.00231	.00176	.00519

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1109.0000 IN. XO
 LREF = 474.6100 IN. YMRP = .0000 IN. YO
 BREF = 936.6800 IN. ZMRP = 375.0000 IN. ZO
 SCALE = .0125

RUN NO. 71/ 0 RN/L = 3.48 GRADIENT INTERVAL = -5.00/ 5.00

PARAMETRIC DATA

BETAC = .000 STAB-C = 5.000
 RUD-C = .000 BETAO = .000
 ELV-O = 5.000 AIL-O = .000
 RUD-O = .000 I-ORB = 6.000

MACH	ALPHA	ALPHAC	BETA	CPC	CPB1	CPB2	CPB3
.601	3.630	-2.85000	.00000	.04150	-.20100	-.20540	-.21380
.600	4.730	-1.76000	.00000	.04150	-.20670	-.21010	-.21690
.598	5.850	-.67000	.00000	.04260	-.20450	-.21060	-.21600
.600	6.960	.42000	.00000	.03880	-.20980	-.21420	-.22290
.601	8.120	1.56000	.00000	.04580	-.20420	-.21160	-.21500
.600	9.210	2.63000	.00000	.04420	-.20760	-.21730	-.22410
.600	10.320	3.73000	.00000	.04590	-.21130	-.21870	-.22580
.601	11.430	4.81000	.00000	.04490	-.21730	-.22200	-.22840
.601	12.530	5.89000	.00000	.05230	-.21760	-.22260	-.23140
.601	13.650	7.00000	-.01000	.04840	-.22590	-.23400	-.23870
	GRADIENT	.99091	.00000	.00000	-.00518	-.00427	-.00282

ARC14-080-1 CA23 747/1 01 AT2 (ORB MATED)

(AE9C71) (05 MAY 75)

REFERENCE DATA

SREF = 5500.0000 SQ.FT. XMRP = 1339.9000 IN. XC
 LREF = 327.7800 IN. YMRP = .0000 IN. YC
 BREF = 2348.0400 IN. ZMRP = 190.7500 IN. ZC
 SCALE = .0125

PARAMETRIC DATA

BETAC = .000 RUD-C = .000
 BETAO = .000 ELV-O = .000
 AIL-O = .000 RUD-O = .000
 I-OR8 = 6.000

GRADIENT INTERVAL = -5.00/ 5.00

RUN NO. 22/ 0 RN/L = 3.47

ALPHA	BETA	CPC	CPS81	CPS82	CPI4	CPI5	CPI6	CPI7
3.43000	.00000	-.00500	-.00800	.00000	.00000	.13780	.02350	.22840
4.57000	.00000	-.01050	-.01120	.00000	.00000	.12890	.02060	.22350
5.67000	.00000	-.00260	-.00460	.00000	.00000	.13370	.02860	.23180
6.83000	.00000	-.00640	-.00770	.00000	.00000	.12550	.02770	.23230
7.95000	.00000	-.00480	-.00450	.00000	.00000	.12720	.03480	.23880
9.11000	.00000	-.01240	-.01410	.00000	.00000	.11750	.03180	.23740
10.23000	.00000	-.00820	-.00490	.00000	.00000	.12050	.04130	.24900
11.35000	.00000	-.00760	-.00660	.00000	.00000	.11670	.04300	.25920
12.45000	.00000	-.00620	-.01190	.00000	.00000	.11640	.04780	.26810
13.57000	.00000	-.00820	-.01590	.00000	.00000	.11670	.04950	.27680
GRADIENT	1.01721	-.00107	-.00037	.00000	.00000	-.00253	.00274	.00391

REFERENCE DATA

SREF = 5500.0000 SQ.FT. XMRP = 1339.9000 IN. XC
 LREF = 327.7800 IN. YMRP = .0000 IN. YC
 BREF = 2348.0400 IN. ZMRP = 190.7500 IN. ZC
 SCALE = .0125

PARAMETRIC DATA

BETAC = .000 STAB-C = .000
 BETAO = .000 ELV-O = .000
 AIL-O = .000 RUD-O = .000
 I-OR8 = 6.000

GRADIENT INTERVAL = -5.00/ 5.00

RUN NO. 23/ 0 RN/L = 3.75

ALPHA	BETA	CPC	CPS81	CPS82	CPI4	CPI5	CPI6	CPI7
3.37000	.00000	-.00350	-.00700	.00000	-.22250	.13520	.00660	.00000
4.49000	.00000	-.00900	-.00960	.00000	-.22730	.13020	.00200	.00000
5.63000	.00000	-.00070	-.00440	.00000	-.21790	.13090	.01060	.00000
6.82000	.00000	-.00470	-.00600	.00000	-.21810	.12550	.00960	.00000
8.02000	.00000	-.00320	-.00080	.00000	-.22190	.12490	.01430	.00000
9.18000	.00000	-.00100	-.00250	.00000	-.22080	.12260	.01800	.00000
10.36000	.00000	-.00480	-.00510	.00000	-.22510	.12260	.02070	.00000
11.47000	.00000	-.00250	-.00490	.00000	-.22890	.12520	.02270	.00000
12.61000	.00000	-.00220	-.00320	.00000	-.23070	.12940	.02380	.00000
13.75000	.00000	-.00300	-.01190	.00000	-.24400	.12650	.02670	.00000
GRADIENT	1.02238	.00037	.00051	.00000	-.00048	-.00140	.00244	.00000

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TABULATED SOURCE DATA - CA23A

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ARC14-080-1 CA23 747/1 01 AT1 (MATED)

(AES024) (05 MAY 75)

REFERENCE DATA

SREF = 5500.0000 SQ.FT. XMRP = 1339.9000 IN. XC
 LREF = 327.7800 IN. YMRP = .0000 IN. YC
 BREF = 2348.0400 IN. ZMRP = 190.7500 IN. ZC
 SCALE = .0125

PARAMETRIC DATA

BETAC = .000 STAB-C = 5.000
 RUO-C = .000 BETAO = .000
 ELV-O = 5.000 AIL-O = .000
 RUO-O = .000 I-ORR = 6.000

RUN NO. 24/ 0 RN/L = 3.32 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAC	ALPHA	BETA	CPC	CPSB1	CPSB2	CP14	CP15	CP16	CP17
.585	-3.100	3.38000	.00000	-.00130	-.00370	.00000	-.21600	.13120	.01860	.00000
.584	-1.960	4.57000	.00000	-.00480	-.00650	.00000	-.22120	.12440	.01510	.00000
.585	-.900	5.60000	.00000	-.00110	-.00350	.00000	-.21780	.12440	.01810	.00000
.585	.210	6.74000	.00000	.00120	-.00540	.00000	-.21810	.12090	.02340	.00000
.585	1.310	7.85000	.00000	-.00130	-.00200	.00000	-.22110	.11840	.02420	.00000
.585	2.400	8.96000	.00000	-.00120	-.00440	.00000	-.22060	.11590	.02600	.00000
.584	3.470	10.05000	.00000	-.00150	-.00460	.00000	-.22290	.11770	.03100	.00000
.586	4.560	11.16000	.00000	-.00300	-.00920	.00000	-.22790	.11630	.03290	.00000
.585	5.680	12.30000	.00000	-.00210	-.00840	.00000	-.22360	.11990	.03860	.00000
.585	6.760	13.40000	.00000	.00150	-.00860	.00000	-.22880	.12340	.04190	.00000
GRADIENT		1.01612	-.00076	.00002	-.00031	.00000	-.00113	-.00181	.00222	.00000

ARC14-080-1 CA23 747/1 01 AT1 (MATED)

(AES025) (05 MAY 75)

REFERENCE DATA

SREF = 5500.0000 SQ.FT. XMRP = 1339.9000 IN. XC
 LREF = 327.7800 IN. YMRP = .0000 IN. YC
 BREF = 2348.0400 IN. ZMRP = 190.7500 IN. ZC
 SCALE = .0125

PARAMETRIC DATA

BETAC = .000 STAB-C = 5.000
 RUO-C = .000 BETAO = .000
 ELV-O = 5.000 AIL-O = .000
 RUO-O = .000 I-ORR = 6.000

RUN NO. 25/ 0 RN/L = 3.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAC	ALPHA	BETA	CPC	CPSB1	CPSB2	CP14	CP15	CP16	CP17
.501	-3.090	3.35000	.00000	-.00190	-.00370	.00000	-.21690	.12450	.02620	.00000
.501	-2.010	4.45000	.00000	-.00140	-.00270	.00000	-.22030	.12280	.02360	.00000
.501	-.920	5.54000	.00000	-.00010	-.00410	.00000	-.21930	.11890	.02670	.00000
.501	.110	6.59000	.00000	-.00280	-.00450	.00000	-.21760	.11850	.03080	.00000
.501	1.220	7.71000	.00000	-.00730	-.00820	.00000	-.22390	.11110	.02540	.00000
.501	2.260	8.76000	.00000	-.00020	-.00340	.00000	-.21920	.11680	.03500	.00000
.501	3.350	9.87000	.00000	-.00940	-.01610	.00000	-.23120	.10510	.02830	.00000
.502	4.380	10.92000	.00000	-.00400	-.01340	.00000	-.22800	.10940	.03570	.00000
.503	5.470	12.02000	.00000	.00220	-.00850	.00000	-.22510	.11680	.04550	.00000
.502	6.540	13.11000	.00000	-.00270	-.01470	.00000	-.23870	.11220	.04110	.00000
GRADIENT		1.01258	.00000	-.00065	-.00152	.00000	-.00139	-.00232	.00121	.00000

TABULATED SOURCE DATA - CA23A
ARC14-080-1 CA23 747/1 01 AT1 (MATED)

REFERENCE DATA									
REF	5500.0000	SQ. FT.	YMRP	1339.9000	IN. XC	BETAC	.000	STAB-C	5.000
REF	327.7800	IN.	YMRP	.0000	IN. YC	RUD-C	.000	BETAO	.000
REF	2348.0400	IN.	ZMRP	190.7500	IN. ZC	ELV-O	5.000	AIL-O	.000
SCALE	.0125					RUD-O	.000	I-ORB	6.000

PARAMETRIC DATA									
ARC14-080-1 CA23 747/1 01 AT1 (MATED)									
MACH	301	ALPHA	3.35000	BETA	.00000	CPC	.00140	CPSB1	.00470
	302		4.40000		.00000		.00140		.00470
	303		5.42000		.00000		.00270		.00930
	303		6.47000		.00000		.00800		.00680
	304		7.48000		.00000		.00130		.00460
	301		8.51000		.00000		.00400		.00150
	301		9.53000		.00000		.00200		.00640
	301		10.57000		.00000		.00200		.00950
	301		11.59000		.00000		.00550		.01550
	301		12.61000		.00000		.00720		.01720
	301	GRADIENT	1.00523		.00000		.00026		.00039

ARC14-080-1 CA23 747/1 01 AT1 (MATED)

REFERENCE DATA									
REF	5500.0000	SQ. FT.	YMRP	1339.9000	IN. XC	BETAC	.000	STAB-C	5.000
REF	327.7800	IN.	YMRP	.0000	IN. YC	RUD-C	10.000	BETAO	.000
REF	2348.0400	IN.	ZMRP	190.7500	IN. ZC	ELV-O	5.000	AIL-O	.000
SCALE	.0125					RUD-O	.000	I-ORB	6.000

PARAMETRIC DATA									
ARC14-080-1 CA23 747/1 01 AT1 (MATED)									
MACH	591	ALPHA	3.39000	BETA	.04000	CPC	.00040	CPSB1	.00280
	590		4.51000		.03000		.00290		.00670
	588		5.66000		.03000		.00340		.00930
	590		6.74000		.03000		.00360		.00930
	588		7.84000		.03000		.00110		.00330
	589		8.97000		.03000		.00100		.00450
	588		10.06000		.03000		.00250		.00490
	588		11.17000		.03000		.00300		.01100
	587		12.27000		.03000		.00080		.00270
	588		13.41000		.03000		.00530		.00020
	588	GRADIENT	1.01622		.00077		.00008		.00043

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TABULATED SOURCE DATA - CA23A

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(AES028) (05 MAY 75)

ARC14-080-1 CA23 747/1 01 AT1 (MATED)

REFERENCE DATA

XREF = 5500.0000 SQ.FT. XMRP = 1339.9000 IN. XC
 YREF = 327.7800 IN. YMRP = .0000 IN. YC
 ZREF = 2348.0400 IN. ZMRP = 190.7500 IN. ZC
 SCALE = .0125

PARAMETRIC DATA

BETAC = .000 STAB-C = 3.000
 RUO-C = .000 BETAO = .000
 ELV-O = 5.000 AIL-O = .000
 RUO-O = .000 I-ORB = 6.000

RUN NO. 28/ 0 RN/L = 3.46 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CPC	CPSB1	CPSB2	CP14	CP15	CP16	CP17
.593	3.050	.0000	-.00440	-.00680	.00000	-.21430	.12630	.03000	.00000
.593	-1.970	.0000	-.00190	-.00090	.00000	-.21310	.12530	.02980	.00000
.591	-1.860	.0000	-.00400	-.00670	.00000	-.21200	.12020	.03160	.00000
.591	2.10	.0000	-.00920	-.00920	.00000	-.21830	.11300	.03130	.00000
.591	1.720	.0000	-.00760	-.01170	.00000	-.21750	.11220	.03290	.00000
.592	2.430	.0000	-.00640	-.01020	.00000	-.22300	.10920	.03790	.00000
.591	3.530	.0000	-.00860	-.01340	.00000	-.22300	.10880	.03500	.00000
.590	4.600	.0000	-.00580	-.01260	.00000	-.22570	.10800	.04170	.00000
.590	5.720	.0000	-.00400	-.01220	.00000	-.22350	.11250	.04380	.00000
.591	6.800	.0000	-.00410	-.01130	.00000	-.22870	.11510	.04850	.00000
	GRADIENT	1.01738	-.00163	-.00126	.00000	-.00175	-.00269	.00140	.00000

ARC14-080-1 CA23 747/1 01 AT1 (MATED)

(AES029) (05 MAY 75)

REFERENCE DATA

XREF = 5500.0000 SQ.FT. XMRP = 1339.9000 IN. XC
 YREF = 327.7800 IN. YMRP = .0000 IN. YC
 ZREF = 2348.0400 IN. ZMRP = 190.7500 IN. ZC
 SCALE = .0125

PARAMETRIC DATA

BETAC = .000 STAB-C = -1.000
 RUO-C = .000 BETAO = .000
 ELV-O = 5.000 AIL-O = .000
 RUO-O = .000 I-ORB = 6.000

RUN NO. 29/ 0 RN/L = 3.39 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CPC	CPSB1	CPSB2	CP14	CP15	CP16	CP17
.591	-1.900	.0000	-.00260	-.00980	.00000	-.19980	.11170	.04740	.00000
.589	-.900	.0000	-.01140	-.01800	.00000	-.21320	.10070	.04240	.00000
.589	1.400	.0000	-.00690	-.01000	.00000	-.20810	.09970	.04880	.00000
.589	2.520	.0000	-.01500	-.01870	.00000	-.21540	.09020	.04460	.00000
.589	3.640	.0000	-.00770	-.01870	.00000	-.21200	.09300	.04860	.00000
.591	4.650	.0000	-.00940	-.01310	.00000	-.20930	.09730	.05370	.00000
.591	5.760	.0000	-.00740	-.01520	.00000	-.21450	.09350	.05270	.00000
.589	6.850	.0000	-.00740	-.01630	.00000	-.21290	.09820	.05640	.00000
	GRADIENT	1.01655	-.00054	-.00043	.00000	-.22560	.09650	.05170	.00000
						-.00130	-.00221	.00125	.00000

(AES030) (05 MAY 75)

TABULATED SOURCE DATA - CA23A
ARC14-080-1 CA23 747/1 01 AT1 (MATED)

DATE 13 NOV 75

REFERENCE DATA

SREF = 5500.0000 SQ.FT.
REF = 327.7800 IN.
REF = 2348.0400 IN.
SCALE = .0125

YPRP = 1339.9000 IN. XC
YPRP = .0000 IN. YC
ZPRP = 190.7500 IN. ZC

RUN NO. 30/ 0 RN/L = 3.51

GRADIENT INTERVAL = -5.00/ 5.00

PARAMETRIC DATA

BETAC = .000 STAB-C = -1.000
RUD-C = .000 BETAO = .000
ELV-O = 10.000 AIL-O = .000
RUD-O = .000 1-OR8 = 6.000

CP14 -21210 CP15 .11220 CP16 .04770 CP17 .00000
-21530 -11280 .05130 .00000
-21750 -10570 .05100 .00000
-20870 -10990 .06260 .00000
-21300 -10500 .06000 .00000
-21630 -09760 .06100 .00000
-22290 -09910 .06020 .00000
-22870 -08940 .05400 .00000
-23170 -09010 .05980 .00000
-23300 -09390 .06310 .00000
-00168 -00284 .00125 .00000

(AES031) (05 MAY 75)

ARC14-080-1 CA23 747/1 01 AT1 (MATED)

REFERENCE DATA

SREF = 5500.0000 SQ.FT.
REF = 327.7800 IN.
REF = 2348.0400 IN.
SCALE = .0125

YPRP = 1339.9000 IN. XC
YPRP = .0000 IN. YC
ZPRP = 190.7500 IN. ZC

RUN NO. 31/ 0 RN/L = 3.44

GRADIENT INTERVAL = -5.00/ 5.00

PARAMETRIC DATA

BETAC = .000 STAB-C = 5.000
RUD-C = .000 BETAO = .000
ELV-O = 10.000 AIL-O = .000
RUD-O = .000 1-OR8 = 6.000

CP14 -22610 CP15 .13370 CP16 .02680 CP17 .00000
-22370 -12850 .02700 .00000
-22460 -13170 .03420 .00000
-22560 -12560 .03710 .00000
-22960 -12270 .03830 .00000
-23570 -12140 .04150 .00000
-23670 -11780 .03690 .00000
-23310 -12140 .04470 .00000
-23450 -12380 .05100 .00000
-23700 -12110 .05290 .00000
-00104 -00187 .00212 .00100

ALPHAC -3.070 ALPHA 3.44000 BETA .00000 CPC .00330
-1.950 4.59000 .00000 .00670 .00200
-.880 5.66000 .00000 .00850 .00170
-.250 6.82000 .00000 .00610 .00350
1.380 7.97000 .00000 .00390 .00300
2.490 9.10000 .00000 .00650 .00580
3.550 10.21000 .00000 .00360 .00030
4.680 11.32000 .00000 .00720 .00720
5.720 12.39000 .00000 .00820 .00180
6.850 13.55000 .00000 .00370 .00290
GRADIENT 1.01708 .00033

DATE 13 NOV 75

TABULATED SOURCE DATA - CA23A

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(AE9032) (05 MAY 75)

ARC14-080-1 CA23 747/1 01 ATI (MATED)

REFERENCE DATA

SREF = 5500.0000 SQ.FT. XMRP = 1339.9000 IN. XC
 LREF = 327.7800 IN. YMRP = 0000 IN. YC
 BRP = 2348.0400 IN. ZMRP = 190.7500 IN. ZC
 SCALE = .0125

RUN NO. 32/ 0 RN/L = 3.46 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CPC	CPSB1	CPSB2	CP14	CP15	CP16	CP17
.601	-3.170	.0000	-.01160	-.01570	.00000	-.21280	.11550	.01670	-.01770
.601	-2.030	.0000	-.00560	-.01260	.00000	-.20790	.11690	.01610	-.01190
.601	-1.330	.0000	-.00650	-.01090	.00000	-.20450	.11790	.02080	-.00990
.601	-.160	.0000	-.00960	-.01560	.00000	-.20970	.11310	.02010	-.01290
.601	1.250	.0000	-.00730	-.01550	.00000	-.20780	.11290	.02180	-.01150
.601	2.320	.0000	-.00760	-.01570	.00000	-.21060	.11250	.01920	-.01430
.601	3.430	.0000	-.01050	-.01810	.00000	-.21220	.11180	.02160	-.01350
.601	4.510	.0000	-.01340	-.02010	.00000	-.22140	.10770	.01740	-.01740
.601	5.650	.0000	-.01140	-.01870	.00000	-.22030	.11500	.02340	-.01240
.601	6.720	.0000	-.00820	-.01690	.00000	-.22340	.11730	.03050	-.01050
.601	GRAD ENT	1.01745	-.00036	-.00079	.00000	-.00106	-.00104	.00021	-.00019

PARAMETRIC DATA

BETAC = .000 STAB-C = 5.000
 RUD-C = .000 BETAO = .000
 ELV-O = .000 AIL-O = .000
 RUD-O = .000 I-ORR = 6.000

ARC14-080-1 CA23 747/1 05 ATI (MATED)

(AE9033) (05 MAY 75)

REFERENCE DATA

SREF = 5500.0000 SQ.FT. XMRP = 1339.9000 IN. XC
 LREF = 327.7800 IN. YMRP = 0000 IN. YC
 BRP = 2348.0400 IN. ZMRP = 190.7500 IN. ZC
 SCALE = .0125

RUN NO. 33/ 0 RN/L = 3.43 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CPC	CPSB1	CPSB2	CP14	CP15	CP16	CP17
.600	-3.150	.0000	-.00790	-.01320	.00000	-.19950	.12020	.01760	-.01520
.600	-2.050	.0000	-.00910	-.01950	.00000	-.20240	.11360	.01410	-.01410
.600	-.930	.0000	-.01210	-.01850	.00000	-.20120	.11450	.01410	-.01390
.600	.140	.0000	-.00900	-.01330	.00000	-.20920	.11400	.01160	-.01430
.600	1.230	.0000	-.01400	-.02370	.00000	-.20680	.10890	.01010	-.01630
.600	2.250	.0000	-.01190	-.01790	.00000	-.20500	.11210	.01340	-.01490
.600	3.450	.0000	-.01640	-.02580	.00000	-.21260	.10730	.01260	-.01940
.600	4.540	.0000	-.01110	-.02010	.00000	-.20810	.11220	.01960	-.01160
.600	5.600	.0000	-.01090	-.02360	.00000	-.21490	.11320	.02050	-.01520
.600	6.680	.0000	-.01170	-.02070	.00000	-.22300	.11500	.02680	-.01270
.600	GRADIENT	1.01740	-.00055	-.00097	.00000	-.00131	-.00109	.00003	-.00011

PARAMETRIC DATA

BETAC = .000 STAB-C = 5.000
 RUD-C = .000 BETAO = .000
 ELV-O = .000 AIL-O = .000
 RUD-O = .000 I-ORR = 6.000

DATE 13 NOV 75

TABULATED SOURCE DATA - CA23A

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ARC14-080-1 CA23 747/1 01 ATI (MATED)

(AES034) (05 MAY 75)

REFERENCE DATA

SREF = 7500.0000 SQ. FT.
 LINEF = 327.7800 IN.
 BREF = 2348.0400 IN.
 SCALE = .0125

XMRP = 1339.9000 IN. XC
 YMRP = .0000 IN. YC
 ZMRP = 190.7500 IN. ZC
 STAB-C = -1.000
 BETAO = .000
 AIL-O = .000
 I-ORR = 0.000

RUN NO. 34/ 0 RN/L = 3.44 GRADIENT INTERVAL = -5.00/ 5.00

PARAMETRIC DATA

MACH	ALPHAC	ALPHA	BETA	CPC	CPSB1	CPSB2	CP14	CP15	CP16	CP17
.602	-3.080	3.37000	.00000	-.01450	-.01980	.00000	-.19730	.10030	.03660	-.02510
.598	-2.000	4.47000	.00000	-.01250	-.01750	.00000	-.19440	.10140	.03910	-.02050
.602	.240	6.74000	.00000	-.02080	-.02380	.00000	-.20290	.09180	.04230	-.03280
.601	1.330	7.85000	.00000	-.01870	-.02340	.00000	-.19980	.08970	.04000	-.02100
.600	2.450	8.99000	.00000	-.02060	-.02560	.00000	-.19820	.09040	.04090	-.02280
.601	3.550	10.11000	.00000	-.01800	-.02500	.00000	-.19920	.09190	.04060	-.02160
.601	4.640	11.22000	.00000	-.01930	-.02530	.00000	-.20480	.09020	.04310	-.02160
.600	5.730	12.33000	-.01000	-.01930	-.02640	.00000	-.21380	.08790	.04180	-.02500
.601	6.810	13.43000	-.01000	-.01600	-.02330	.00000	-.21480	.09330	.04830	-.02030
	GRADIENT	1.01361	.00030	-.00078	-.00097	.00000	-.00080	-.00149	.00043	.00036

ARC14-080-1 CA23 747/1 01 ATI (MATED)

(AES035) (05 MAY 75)

REFERENCE DATA

SREF = 7500.0000 SQ. FT.
 LINEF = 327.7800 IN.
 BREF = 2348.0400 IN.
 SCALE = .0125

XMRP = 1339.9000 IN. XC
 YMRP = .0000 IN. YC
 ZMRP = 190.7500 IN. ZC
 STAB-C = 5.000
 BETAO = .000
 AIL-O = 5.000
 I-ORR = 6.000

RUN NO. 35/ 0 RN/L = 3.46 GRADIENT INTERVAL = -5.00/ 5.00

PARAMETRIC DATA

MACH	ALPHAC	ALPHA	BETA	CPC	CPSB1	CPSB2	CP14	CP15	CP16	CP17
.601	-3.140	3.33000	.01000	-.00360	-.01100	.00000	-.20870	.11320	.02470	-.00730
.598	-2.020	4.47000	.00000	-.00900	-.01640	.00000	-.21700	.10640	.01780	-.01410
.599	-.950	5.56000	.00000	.00000	-.00870	.00000	-.20820	.11070	.02510	.00030
.604	.150	6.67000	.00000	-.00290	-.01410	.00000	-.20870	.10700	.02690	-.00390
.597	1.280	7.83000	.00000	-.00630	-.01800	.00000	-.21440	.09830	.01930	-.00830
.599	2.390	8.95000	.00000	-.00980	-.02220	.00000	-.22230	.09460	.02270	-.01150
.601	3.480	10.07000	.00000	-.01010	-.02080	.00000	-.22030	.09280	.02480	-.01550
.602	4.560	11.17000	.00700	-.00770	-.01900	.00000	-.22340	.09530	.03050	-.01210
.602	5.690	12.32000	.00000	-.00750	-.01720	.00000	-.22600	.09520	.03660	-.00950
.601	6.770	13.42000	.00000	-.00620	-.01420	.00000	-.23740	.10000	.04170	-.00860
	GRADIENT	1.01794	-.00022	-.00073	-.00133	.00000	-.00181	-.00271	.00065	-.00088

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DATE 13 NOV 75
TABULATED SOURCE DATA - CA23A
ARC14-080-1 CA23 747/1 01 AT1 (MATED)
(AES036) (05 MAY 75)

REFERENCE DATA
SREF = 5500.0000 SQ FT. XMRP = 1339.9000 IN. XC
LREF = 327.7800 IN. YMRP = 0.0000 IN. YC
BREF = 2348.0400 IN. ZMRP = 190.7500 IN. ZC
SCALE = 0.125

MAC#	ALPHA	BETA	CPC	CPSB1	CFSB2	CP14	CP15	CP16	CP17
586	3.35000	-0.1000	-0.1000	-0.1110	0.0000	-0.23460	.12210	0.1990	-0.01580
585	3.35000	-0.1000	-0.0740	-0.1300	0.0000	-0.23552	.11980	0.02080	-0.01440
584	3.35000	-0.1000	-0.0870	-0.1220	0.0000	-0.23950	.11470	0.04550	-0.01260
583	3.35000	-0.1000	-0.0730	-0.1000	0.0000	-0.23660	.11160	0.02950	-0.01360
582	3.35000	-0.1000	-0.0570	-0.0350	0.0000	-0.23000	.11190	0.03110	-0.01130
581	3.35000	-0.1000	-0.1000	-0.1310	0.0000	-0.23980	.10900	0.02770	-0.01940
582	3.35000	-0.1000	-0.1270	-0.1520	0.0000	-0.24730	.10460	0.02750	-0.01940
583	3.35000	-0.1000	-0.0540	-0.0850	0.0000	-0.24130	.11250	0.03820	-0.01670
583	3.35000	-0.1000	-0.0730	-0.0910	0.0000	-0.24490	.11260	0.03880	-0.01400
581	3.35000	-0.1000	-0.0630	-0.1130	0.0000	-0.25210	.11300	0.0260	-0.01760
	3.35000	-0.10000	-0.0003	.00035	0.0000	-0.0112	-0.0174	0.0195	-0.00055
	3.35000	-0.10000	0.0003	.00035	0.0000				
	3.35000	-0.10000							
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DATE 13 NOV 75

TABULATED SOURCE DATA - CA23A

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(AES038) (05 MAY 75)

ARC14-080-1 CA23 747/1 01 AT1 (MATED)

REFERENCE DATA

SREF = 5500.0000 SQ. FT. XTRP = 1339.9000 IN. XC
 LREF = 327.7800 IN. YTRP = .0000 IN. YC
 BREF = 2348.0400 IN. ZTRP = 190.7500 IN. ZC
 SCALE = .0125

PARAMETRIC DATA

BETAC = .000 STAB-C = 5.000
 RUO-C = 10.000 BETAO = .000
 ELV-O = 5.000 AIL-O = .000
 RUO-O = .000 I-OAB = 8.000

RUN NO. 38/ 0 RN/L = 3.46 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAC	ALPHA	BETA	CPC	CPSB1	CPSB2	CP14	CP15	CP16	CP17
.593	-3.050	5.38000	.04000	.00070	-.00480	.00000	-.21420	.12370	.03030	-.00590
.593	-1.960	6.50000	.04000	-.00280	-.00590	.00000	-.21920	.12200	.02910	-.00700
.592	-.870	7.60000	.04000	-.00110	-.00590	.00000	-.21810	.11760	.03480	-.00840
.592	.230	8.73000	.04000	-.00460	-.00740	.00000	-.21760	.11400	.03380	-.01080
.590	1.370	9.88000	.03000	-.00410	-.00820	.00000	-.22240	.10990	.03920	-.00890
.590	2.440	10.98000	.03000	-.00760	-.01080	.00000	-.23170	.10510	.03940	-.01350
.590	3.540	12.10000	.03000	-.00530	-.00940	.00000	-.23050	.10660	.04240	-.01220
.590	4.630	13.21000	.03000	-.00390	-.00810	.00000	-.23900	.10590	.04470	-.01220
.590	5.730	14.33000	.03000	-.00510	-.00650	.00000	-.24460	.10370	.04600	-.01210
.590	6.810	15.43000	.03000	-.00200	-.00270	.00000	-.25490	.11590	.05180	-.00820
GRADIENT		1.01917	-.00174	-.00069	-.00061	.00000	-.00298	-.00271	.00202	-.00091

ARC14-080-1 CA23 747/1 01 AT1 (MATED)

(AES039) (05 MAY 75)

REFERENCE DATA

SREF = 5500.0000 SQ. FT. XTRP = 1339.9000 IN. XC
 LREF = 327.7800 IN. YTRP = .0000 IN. YC
 BREF = 2348.0400 IN. ZTRP = 190.7500 IN. ZC
 SCALE = .0125

PARAMETRIC DATA

BETAC = .000 STAB-C = -1.000
 RUO-C = .000 BETAO = .000
 ELV-O = 5.000 AIL-O = .000
 RUO-O = .000 I-OAB = 8.000

RUN NO. 39/ 0 RN/L = 3.46 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAC	ALPHA	BETA	CPC	CPSB1	CPSB2	CP14	CP15	CP16	CP17
.600	-1.840	6.62000	.00000	-.00940	-.01550	.00000	-.20510	.10080	.04440	-.01880
.600	-.780	7.70000	.00000	-.00920	-.01160	.00000	-.20210	.10020	.04850	-.01400
.599	.250	8.85000	.00000	-.01390	-.01560	.00000	-.21170	.09450	.05080	-.02040
.600	1.480	10.00000	.00000	-.00980	-.01080	.00000	-.21320	.09200	.05350	-.02000
.600	2.550	11.10000	.00000	-.00730	-.01310	.00000	-.21680	.09300	.05890	-.02160
.598	3.630	12.20000	.00000	-.00940	-.01510	.00000	-.22550	.08920	.05720	-.02160
.598	4.750	13.34000	.00000	-.00800	-.01000	.00000	-.22850	.09380	.06260	-.01650
.598	5.840	14.45000	.00000	-.00760	-.01240	.00000	-.23480	.09030	.06430	-.01750
.598	6.920	15.55000	.00000	-.00930	-.01390	.00000	-.24750	.09560	.06530	-.02040
GRADIENT		1.02013	.00000	-.00034	.00039	.00000	-.00397	-.00145	.00260	-.00013

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1. TULATED SOURCE DATA - CA23A

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ARC14-080-1 CA23 747/1 01 ATI (MATED)

(AE9040)

(05 MAY 75)

REFERENCE DATA

CF = 5500.0000 SQ FT. XMRP = 1339.9000 IN. XC
 CF = 327.7800 IN. YMRP = .0000 IN. YC
 CF = 2348.0400 IN. ZMRP = 190.7500 IN. ZC
 ALE = 0.125

RUN NO. 41/ 0 RN/L = 3.46 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAC	ALPHA	BETA	CPC	CPSB1	CPSB2	CP14	CP15	CP16	CP17
.598	2.950	5.52000	.00000	.00150	.00000	.00000	.21160	.10450	.04770	.01040
.596	-1.830	6.60000	.00000	.00370	.00850	.00000	.21030	.10250	.05230	.00890
.600	-1.740	7.77000	.00000	.00350	.00660	.00000	.21290	.09740	.05200	.01270
.599	1.350	8.90000	.00000	.00430	.00800	.00000	.21840	.09660	.05560	.00940
.600	1.500	10.06000	.00000	.00490	.00490	.00000	.21640	.09900	.06250	.00790
.600	2.500	11.17000	.00000	.00280	.00550	.00000	.22390	.09260	.06050	.01200
.600	3.740	12.34000	.00000	.00160	.00230	.00000	.22230	.09520	.06680	.00870
.598	4.790	13.42000	.00000	.00300	.00480	.00000	.23390	.09290	.06880	.00850
.601	5.690	14.52000	.00000	.00160	.00110	.00000	.23530	.09910	.07480	.00820
.602	6.970	15.63000	.00000	.00000	.00700	.00000	.25030	.09800	.07240	.01240
	GRADIENT	1.02028	.00000	.00031	.00016	.00000	.00232	.00139	.00271	.00019

BETAC = .000 STAB-C = -1.000
 RUD-C = .000 BETAO = .000
 ELV-O = 10.000 AIL-O = .000
 RUD-O = .000 I-ORB = 0.000

ARC14-080-1 CA23 747/1 01 ATI (MATED)

(AE9041)

(05 MAY 75)

REFERENCE DATA

CF = 5500.0000 SQ FT. XMRP = 1339.9000 IN. XC
 CF = 327.7800 IN. YMRP = .0000 IN. YC
 CF = 2348.0400 IN. ZMRP = 190.7500 IN. ZC
 ALE = 0.125

RUN NO. 41/ 0 RN/L = 3.45 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAC	ALPHA	BETA	CPC	CPSB1	CPSB2	CP14	CP15	CP16	CP17
.600	-3.020	5.45000	.00000	.00010	.00550	.00000	.22720	.12290	.02960	.00550
.599	-1.890	6.60000	.00000	.00440	.00440	.00000	.22640	.12500	.03210	.00100
.599	1.800	7.71000	.00000	.00460	.00120	.00000	.22470	.12230	.04010	.00080
.600	1.290	8.82000	.00000	.00220	.00150	.00000	.22920	.11570	.03880	.00320
.600	1.400	9.95000	.00000	.00610	.00130	.00000	.22460	.11820	.04730	.00170
.599	2.490	11.06000	.00000	.00470	.00170	.00000	.23490	.11170	.04800	.00240
.601	3.640	12.25000	.00000	.00120	.00120	.00000	.23670	.11030	.04730	.00590
.603	4.660	13.31000	.00000	.00610	.00610	.00000	.23980	.11440	.05710	.00010
.601	5.790	14.43000	.00000	.00330	.00120	.00000	.25080	.11200	.05340	.00420
.602	6.860	15.52000	.00000	.00530	.00050	.00000	.25640	.11860	.05840	.00470
	GRADIENT	1.02075	.00000	.00034	.00062	.00000	.00211	.00176	.00325	.00016

BETAC = .000 STAB-C = 5.000
 RUD-C = .000 BETAO = .000
 ELV-O = 10.000 AIL-O = .000
 RUD-O = .000 I-ORB = 0.000

TE 13 NOV 75

TABULATED SOURCE DATA - CA23A

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ARC14-C90-1 CA23 747/1 01 ATI (MATED)

(AES042) (05 MAY 75)

REFERENCE DATA

EF = 5500.0000 SQ. FT. XMRP = 1339.9000 IN. XC
 EF = 327.7800 IN. YMRP = .0000 IN. YC
 EF = 2348.0400 IN. ZMRP = 190.7500 IN. ZC
 ALE = .0125

BETAC = .000 STAB-C = 5.000
 RUO-C = .000 BETAO = .000
 ELV-O = 5.000 AIL-O = -18.000
 RUO-O = .000 I-ORR = 8.000

PARAMETRIC DATA

RUN NO. 42/ 0 RN/L = 3.42 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAC	ALPHA	BETA	CPC	CPS81	CPS82	CP14	CP15	CP16	CP17
.600	-3.100	5.39000	.01000	-.00610	-.01630	.00000	-.20940	.10810	.03090	-.00750
.601	-1.990	6.49000	.00000	-.00030	-.00770	.00000	-.20580	.11090	.03270	-.00370
.600	-.880	7.60000	.01000	-.01430	-.02110	.00000	-.22020	.09730	.02620	-.01530
.601	.220	8.72000	.01000	-.01040	-.01880	.00000	-.21770	.09880	.02360	-.01140
.602	1.380	9.90000	.01000	-.00740	-.01350	.00000	-.21780	.09940	.02650	-.00910
.602	2.430	10.97000	.01000	-.00970	-.01850	.00000	-.22450	.09810	.02570	-.00900
.600	3.620	12.18000	.01000	-.00920	-.02140	.00000	-.22820	.10090	.03030	-.00820
.601	4.640	13.22000	.01000	-.00770	-.01850	.00000	-.23520	.10300	.03340	-.00910
.601	5.700	14.31000	.01000	-.00960	-.01980	.00000	-.24020	.10610	.03560	-.00860
.600	6.820	15.45000	.01000	-.01450	-.02400	.00000	-.25490	.10420	.03300	-.01480
GRADIENT		1.01864	.00054	-.00041	-.00076	.00000	-.00329	-.00089	.00028	-.00013

REFERENCE DATA

EF = 9500.0000 SQ. FT. XMRP = 1339.9000 IN. XC
 EF = 327.7800 IN. YMRP = .0000 IN. YC
 EF = 2348.0400 IN. ZMRP = 190.7500 IN. ZC
 ALE = .0125

BETAC = .000 STAB-C = 5.000
 RUO-C = .000 BETAO = .000
 ELV-O = .000 AIL-O = .000
 RUO-O = .000 I-ORR = 8.000

PARAMETRIC DATA

ARC14-080-1 CA23 747/1 01 ATI (MATED)

(AES043) (05 MAY 75)

RUN NO. 43/ 0 RN/L = 3.45 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAC	ALPHA	BETA	CPC	CPS81	CPS82	CP14	CP15	CP16	CP17
.602	-3.100	5.31000	.01000	-.00890	-.01090	.00000	-.20300	.12400	.01740	-.01760
.601	-1.990	6.44000	.00000	-.01390	-.01730	.00000	-.21180	.11630	.01300	-.02000
.600	-.930	7.52000	.00000	-.01350	-.01410	.00000	-.21200	.11610	.01660	-.01920
.601	.230	8.63000	.00000	-.02690	-.01940	.00000	-.21870	.10480	.01320	-.02550
.604	1.360	9.85000	.00000	-.01390	-.01650	.00000	-.21670	.10810	.01960	-.02150
.602	2.450	10.97000	.00000	-.00640	-.01010	.00000	-.21670	.11410	.02930	-.01580
.601	3.530	12.07000	.00000	-.01060	-.01060	.00000	-.22370	.11170	.02710	-.01870
.602	4.610	13.17000	.00000	-.01150	-.01450	.00000	-.23170	.11330	.03220	-.02020
.601	5.680	14.26000	.00000	-.01110	-.01590	.00000	-.24230	.11700	.03600	-.02020
.601	6.760	15.36000	.00000	-.01360	-.02140	.00000	-.25740	.11240	.03080	-.01970
.600			-.00075	.00035	.00025	.00000	-.00293	-.00109	.00235	.00003
GRADIENT		1.01981	-.00075	.00035	.00025	.00000	-.00293	-.00109	.00235	.00003

REFERENCE DATA									
MACH	ALPHAC	ALPHA	BETA	CPC	CP581	CP582	CP14	CP15	CP16
.598	-3.010	5.40000	.01000	-.02530	-.02870	.00000	-.20050	.09420	.03040
.598	-1.900	6.53000	.00000	-.02590	-.03070	.00000	-.20400	.09310	.03020
.601	-.800	7.65000	.01000	-.01730	-.02140	.00000	-.19330	.09790	.04150
.601	-.230	8.76000	.00000	-.01570	-.01980	.00000	-.19350	.09530	.04650
.601	1.370	9.87000	.00000	-.02320	-.02360	.00000	-.20530	.08740	.04220
.602	2.490	11.01000	.00000	-.02160	-.02530	.00000	-.21030	.08790	.04310
.601	3.590	12.13000	.00000	-.02280	-.02690	.00000	-.21840	.08690	.04510
.602	4.720	13.28000	.00000	-.01710	-.02350	.00000	-.21960	.09090	.05290
.601	5.770	14.35000	.00000	-.01430	-.02110	.00000	-.23070	.09320	.05340
.599	6.960	15.45000	.00000	-.01920	-.02910	.00000	-.24540	.09030	.04620
GRADIENT		1.01989	-.00108	.00057	.00043	.00000	-.00285	-.00099	.00251
									.00011

BETAC	STAB-C	-1.000
RUD-C	BETAO	.000
ELV-O	AIL-O	.000
RUD-O	I-ORB	.000

ARC14-080-1 CA23 747/1 01 AT1 (MATED) (AE9045) (05 MAY 75)

REFERENCE DATA									
MACH	ALPHAC	ALPHA	BETA	CPC	CP581	CP582	CP14	CP15	CP16
.600	-3.150	1.15000	.00000	-.03250	-.03790	.00000	-.20510	.09920	.03990
.601	-2.050	2.27000	.00000	-.02900	-.03540	.00000	-.21190	.08950	.02720
.601	-.960	3.39000	.00000	-.02730	-.03540	.00000	-.21380	.08740	.02900
.602	.140	4.49000	.00000	-.02960	-.03640	.00000	-.21670	.08750	.03020
.601	1.280	5.60000	.00000	-.03630	-.04440	.00000	-.21960	.08350	.02750
.602	2.370	6.76000	.00000	-.03370	-.04140	.00000	-.21940	.08340	.02550
.602	3.490	7.90000	.01000	-.03470	-.04040	.00000	-.21840	.08070	.02620
.603	4.570	9.01000	.01000	-.03370	-.04140	.00000	-.21880	.08120	.02880
.602	5.660	10.11000	.01000	-.03320	-.03960	.00000	-.22150	.08030	.03760
.601	6.740	11.21000	.01000	-.03300	-.04210	.00000	-.22000	.08160	.03480
GRADIENT		1.01734	-.00150	-.00068	-.00082	.00000	-.00159	-.00200	-.00103

BETAC	STAB-C	-1.000
RUD-C	BETAO	.000
ELV-O	AIL-O	.000
RUD-O	I-ORB	.000

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TABULATED SOURCE DATA - CA23A

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ARC14-080-1 CA23 747/1 01 ATI (MATED)

(AES046) (05 MAY 75)

REFERENCE DATA

REF = 5500.0000 SQ.FT. XMRP = 1339.9000 IN. XC
 REF = 327.7800 IN. YMRP = .0000 IN. YC
 REF = 2348.0400 IN. ZMRP = 190.7500 IN. ZC
 SCALE = .0125

PARAMETRIC DATA

BETAC = .000 STAB-C = 5.000
 RUJ-C = .000 BETAO = .000
 ELV-O = .000 AIL-O = .000
 RUJ-O = .000 I-ORR = 4.000

RUN NO. 46/ 0 RN/L = 3.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAC	ALPHA	BETA	CPC	CPSB1	CPSB2	CP14	CP15	CP16	CP17
.598	-3.230	1.08000	.00000	-.02400	-.03150	.00000	-.22480	.11130	.00600	-.02610
.596	-1.790	2.54000	.00000	-.03430	-.03430	.00000	-.23060	.10710	.00100	-.02690
.595	-.1010	3.33000	-.01000	-.02780	-.03590	.00000	-.23430	.10300	-.00230	-.02980
.596	.090	4.44000	-.01000	-.02520	-.03100	.00000	-.23150	.10250	.00190	-.02730
.597	1.180	5.56000	-.01000	-.02740	-.03730	.00000	-.23050	.10220	-.00040	-.03020
.596	2.270	6.63000	-.01000	-.02750	-.03320	.00000	-.23190	.10030	-.00240	-.02850
.595	3.400	7.81000	-.01000	-.02730	-.03610	.00000	-.23360	.10100	-.00080	-.02760
.596	4.470	8.90000	-.01000	-.02390	-.03200	.00000	-.23020	.10390	.00290	-.02730
.595	5.560	10.00000	-.01000	-.02910	-.03690	.00000	-.23250	.10300	.00620	-.02810
.594	6.650	11.12000	-.01000	-.02980	-.03800	.00000	-.23730	.10350	.00700	-.02910
	GRADIENT	1.01565	-.00130	-.00004	-.00012	.00000	-.00050	-.00100	-.00037	-.00002

ARC14-080-1 CA23 747/1 01 ATI (MATED)

(AES047) (05 MAY 75)

REFERENCE DATA

REF = 5500.0000 SQ.FT. XMRP = 1339.9000 IN. XC
 REF = 327.7800 IN. YMRP = .0000 IN. YC
 REF = 2348.0400 IN. ZMRP = 190.7500 IN. ZC
 SCALE = .0125

PARAMETRIC DATA

BETAC = .000 STAB-C = 5.000
 RUJ-C = .000 BETAO = .000
 ELV-O = 5.000 AIL-O = .000
 RUJ-O = .000 I-ORR = 4.000

RUN NO. 47/ 0 RN/L = 3.52 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAC	ALPHA	BETA	CPC	CPSB1	CPSB2	CP14	CP15	CP16	CP17
.602	-3.190	1.15000	.00000	-.01040	-.01710	.00000	-.23020	.12010	.02050	-.01540
.602	-2.090	2.27000	.00000	-.00790	-.01290	.00000	-.22600	.12130	.02400	-.01050
.601	-.940	3.44000	-.01000	-.00820	-.01390	.00000	-.22660	.11720	.02540	-.01020
.600	1.150	4.54000	-.01000	-.01000	-.01700	.00000	-.21950	.11350	.02210	-.01300
.601	1.250	5.66000	-.01000	-.01290	-.01730	.00000	-.23230	.11050	.01850	-.01390
.601	2.350	6.78000	-.01000	-.00830	-.01160	.00000	-.22470	.11590	.02660	-.00830
.601	3.420	7.86000	-.01000	-.00900	-.01100	.00000	-.22380	.11630	.02700	-.01130
.599	4.510	8.97000	-.01000	-.01270	-.01640	.00000	-.23140	.11080	.02340	-.01510
.600	5.630	10.11000	-.01000	-.00840	-.01740	.00000	-.22660	.11440	.03000	-.01070
.600	6.700	11.20000	-.01000	-.00380	-.01380	.00000	-.22410	.11770	.03560	-.00480
	GRADIENT	1.01526	-.00131	-.00027	-.00025	.00000	.00007	-.00105	.00038	.00003

ATE 13 NOV 75

TABULATED SOURCE DATA - CA23A

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(AE9048) (05 MAY 75)

ARC14-080-1 CA23 747/1 01 ATI (MATED)

REFERENCE DATA

REF = 5500.0000 SQ.FT. XMRP = 1339.9000 IN. XC
 REF = 327.7800 IN. YMRP = .0000 IN. YC
 REF = 2348.0400 IN. ZMRP = 190.7500 IN. ZC
 CALE = .0125

PARAMETRIC DATA

BETAC = .000 STAB-C = 5.000
 RUO-C = 10.000 BETAO = .000
 ELV-O = 5.000 AIL-O = .000
 RUO-O = .000 I-ORB = 4.000

RUN NO. 48/ 0 RN/L = 3.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAC	ALPHA	BETA	CPC	CPSB1	CPSB2	CP14	CP15	CP16	CP17
.603	-3.180	1.16000	.04000	-.00580	-.00750	.00000	-.22150	.13130	.02500	-.01180
.601	-2.090	2.26000	.03000	-.01040	.00000	.00000	-.22410	.12510	.01890	-.01640
.601	-.980	3.33000	.03000	-.00750	.00000	.00000	-.22400	.12070	.02150	-.01450
.601	.140	4.53000	.03000	-.00360	-.00760	.00000	-.21870	.12160	.02970	-.00890
.601	1.210	5.62000	.03000	-.00530	-.00700	.00000	-.22200	.11960	.02670	-.00860
.600	2.320	6.75000	.03000	-.00780	-.01480	.00000	-.22570	.11880	.02290	-.01550
.600	3.440	7.88000	.03000	-.00610	-.00750	.00000	-.22070	.11840	.02620	-.01180
.600	4.530	8.99000	.03000	-.00720	-.00990	.00000	-.22520	.11400	.03020	-.01260
.600	5.600	10.08000	.03000	-.00230	-.01130	.00000	-.22070	.11690	.03810	-.00970
.600	6.710	11.21000	.03000	-.00730	-.01930	.00000	-.22930	.11370	.03590	-.01100
	GRADIENT	1.01609	-.00076	-.00002	-.00020	.00000	-.00018	-.00182	.00080	.00016

ARC14-080-1 CA23 747/1 01 ATI (MATED)

(AE9049) (05 MAY 75)

REFERENCE DATA

REF = 5500.0000 SQ.FT. XMRP = 1339.9000 IN. XC
 REF = 327.7800 IN. YMRP = .0000 IN. YC
 REF = 2348.0400 IN. ZMRP = 190.7500 IN. ZC
 CALE = .0125

PARAMETRIC DATA

BETAC = .000 STAB-C = -1.000
 RUO-C = .000 BETAO = .000
 ELV-O = 5.000 AIL-O = .000
 RUO-O = .000 I-ORB = 4.000

RUN NO. 49/ 0 RN/L = 3.41 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAC	ALPHA	BETA	CPC	CPSB1	CPSB2	CP14	CP15	CP16	CP17
.597	-3.130	1.21000	.00000	-.01280	-.01650	.00000	-.21550	.10160	.04370	-.02160
.600	-2.020	2.34000	.00000	-.02250	-.02980	.00000	-.22220	.09190	.03320	-.03080
.604	-.900	3.48000	.00000	-.01040	-.01530	.00000	-.20890	.09330	.04550	-.01370
.603	.220	4.61000	.00000	-.01600	-.02030	.00000	-.21370	.09300	.04370	-.01990
.601	1.320	5.73000	-.01000	-.02160	-.02450	.00000	-.22100	.09050	.04260	-.02590
.603	2.450	6.88000	-.01740	-.02410	-.02410	.00000	-.21330	.09260	.04720	-.02140
.503	3.540	7.99000	-.01220	-.02310	.00000	.00000	-.21160	.09110	.04730	-.02050
.603	4.600	9.06000	-.01000	-.01480	-.02240	.00000	-.20860	.09110	.04960	-.01710
.603	5.650	10.14000	-.01000	-.01770	-.02400	.00000	-.21640	.08780	.05070	-.02130
.603	6.770	11.27000	-.01000	-.01550	-.02280	.00000	-.21800	.09150	.05500	-.01790
	GRADIENT	1.01569	-.00172	.00012	-.00041	.00000	.00087	-.00108	.00124	.00058

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TABLATED SOURCE DATA - CA23A

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ARC14-080-1 CA23 747/1 01 AT1 (MATED)

(AE9050) (05 MAY 75)

REFERENCE DATA

REF = 9500.0000 SQ.FT. XPRP = 1339.9000 IN. XC
 REF = 327.7800 IN. YPRP = .0000 IN. YC
 REF = 2348.0400 IN. ZPRP = 190.7500 IN. ZC
 SCALE = .0125

RUN NO. 50/ 0 RN/L = 3.44 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAC	ALPHA	BETA	CPC	CPSB1	CPSB2	CP14	CP15	CP16	CP17
.603	-3.060	1.31000	.00000	-.00830	-.00960	.00000	-.22280	.10650	.05110	-.01230
.601	-1.970	2.42000	.00000	-.00850	-.01390	.00000	-.22650	.10360	.04940	-.01820
.604	-.880	3.52000	.00000	-.00750	-.00750	.00000	-.22600	.10060	.05260	-.01450
.604	.280	4.71000	.00000	-.01020	-.01550	.00000	-.22430	.09640	.05270	-.01450
.604	1.380	5.82000	-.01000	-.00700	.00000	.00000	-.22060	.09550	.05910	-.01430
.604	2.480	6.94000	-.01000	-.00420	-.00590	.00000	-.22080	.09600	.05750	-.00980
.603	3.620	8.10000	-.01000	-.00850	-.01780	.00000	-.22150	.09130	.05390	-.01480
.604	4.690	9.19000	-.01000	-.00760	-.01430	.00000	-.22480	.08950	.05700	-.01290
.604	5.700	10.22000	-.01000	-.00710	-.01530	.00000	-.22390	.09210	.05870	-.01340
.604	6.810	11.34000	-.01000	-.01100	-.01630	.00000	-.22970	.08810	.06060	-.01300
.603	GRADIENT	1.01660	-.00171	.00019	-.00061	.00000	.00033	-.00209	.00092	.00029

BETAC = .000 STAB-C = -1.000
 RUD-C = .000 BETAO = .000
 ELV-O = 10.000 AIL-O = .000
 RUD-O = .000 I-ORR = 4.000

ARC14-080-1 CA23 747/1 01 AT1 (MATED)

(AE9051) (05 MAY 75)

REFERENCE DATA

REF = 9500.0000 SQ.FT. XPRP = 1339.9000 IN. XC
 REF = 327.7800 IN. YPRP = .0000 IN. YC
 REF = 2348.0400 IN. ZPRP = 190.7500 IN. ZC
 SCALE = .0125

RUN NO. 51/ 0 RN/L = 3.41 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAC	ALPHA	BETA	CPC	CPSB1	CPSB2	CP14	CP15	CP16	CP17
.598	-3.150	1.22000	.00000	-.00140	-.00470	.00000	-.23760	.12560	.03290	-.00510
.602	-2.100	2.28000	.00200	-.00230	-.00300	.00000	-.22710	.12840	.03710	.00030
.603	-1.000	3.40000	-.01000	.00380	-.00250	.00000	-.23060	.12330	.03520	.00110
.601	.110	4.52000	-.01000	.00150	-.00210	.00000	-.22940	.12130	.03710	-.00260
.601	1.240	5.68000	-.01000	-.00520	-.00950	.00000	-.23940	.11270	.03260	-.00690
.601	2.380	6.84000	-.01000	.00070	-.00890	.00000	-.23630	.11290	.03670	-.00530
.601	3.430	7.91000	-.01000	.00040	-.00560	.00000	-.23480	.11350	.03900	-.00160
.602	4.530	9.02000	-.01000	-.00100	-.00660	.00000	-.23030	.11670	.04090	-.00430
.602	5.640	10.16000	-.01000	-.00060	-.01060	.00000	-.23830	.11170	.04190	-.00430
.603	6.710	11.25000	-.01000	.00110	-.00780	.00000	-.23650	.11610	.04550	-.00230
.603	GRADIENT	1.01673	-.00129	-.00025	-.00058	.00000	-.00017	-.00191	.00070	-.00032

BETAC = .000 STAB-C = 5.000
 RUD-C = .000 BETAO = .000
 ELV-O = 10.000 AIL-O = .000
 RUD-O = .000 I-ORR = 4.000

DATE 13 NOV 75

TABULATED SOURCE DATA - CA23A

PAGE 112

ARC 14-080-1 CA23 747/1 01 AT1 (MATED)

(AE9052) (05 MAY 75)

REFERENCE DATA

REF	9500.0000	SQ.FT.	XPRP	1339.9000	IN.	XC
REF	327.7800	IN.	YPRP	.0000	IN.	YC
REF	2348.0000	IN.	ZPRP	190.7500	IN.	ZC
CALC				.1125		

52/ 0 RN/L = 3.44 GRADIENT INTERVAL = -5.00/ 5.00

	ALPHAC	ALPHA	BETA	CPC	CPSB2	CP14	CP15	CP16	CP17
MACH									
.602	-2.110	2.23000	.00000	-.00750	-.01650	-.21760	.11260	.31730	-.00620
.601	.100	4.48000	.00000	-.00630	-.01460	-.21720	.10850	.01600	-.00900
.601	2.340	6.75000	.00000	-.01100	-.02140	-.22360	.09920	.01860	-.01000
.603	4.480	8.93000	.00000	-.00910	-.01680	-.22360	.09810	.02840	-.01260
.603	6.730	11.23000	.00000	-.01040	-.02500	-.22890	.09510	.03370	-.01540
GRADIENT	1.01635	.00300	.00300	-.00044	-.00036	-.00111	-.00240	.00162	-.00059

BETAC	=	.000	STAB-C	=	5.000
RUD-C	=	.000	BETAO	=	.000
ELV-O	=	5.000	AIL-O	=	-10.000
RUD-O	=	.000	I-ORB	=	4.000

REFERENCE DATA

REF	•	5500.0000	SO.FT.	XMAP	•	1339.9000	IN.	YC
REF	•	327.7800	IN.	YMAP	•	.0000	IN.	YC
REF	•	2348.0400	IN.	ZMAP	•	190.7500	IN.	ZC
SCALE	•	.0125						

PIN NO	53/ 0	RN/L =	3.45	GRADIENT INTERVAL =	-5.00/	5.00
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MACH	ALPHAC	ALPHA	BETA	CPC	CPSB1	CPSB2	CP14	CP15	CP16	CP17
.600	-3.43000	.00000	.00000	-.00730	-.01530	.00000	-.21210	.12340	.03870	-.01200
.600	-1.890	.00000	-.01000	.00120	-.00410	.00000	-.21320	.12810	.04040	-.00170
.602	-1.1400	.01000	-.01000	-.00130	-.00960	.00000	-.22210	.11840	.03240	-.00400
.601	-.790	.572000	.01000	-.00170	-.00800	.00000	-.21700	.12080	.03530	-.00570
.602	.330	6.85000	.01000	-.00230	-.01100	.00000	-.22090	.11830	.03940	-.00830
.601	1.400	7.95000	.01000	-.00100	-.01100	.00000	-.22140	.11830	.03720	-.00530
.602	2.500	9.07000	.01000	.00100	-.00730	.00000	-.21970	.12150	.04070	-.00250
.602	3.600	10.19000	.01000	.00360	-.01220	.00000	-.22980	.11630	.04140	-.00100
.502	4.700	11.31000	.01000	.00030	-.00860	.00000	-.22620	.12110	.04490	-.00390
.602	5.770	12.40000	.01030	.00030	-.01320	.00000	-.23540	.12100	.04670	-.00530
.602	6.900	13.55000	.01000	.00260	-.01320	.00000	-.00171	-.00092	.00041	-.00052
	GRADIENT	1.01825	-.00076	.00030	-.00003	.00000				

BETAC	-	.000	STAB-C	-	5.000
RUD-C	-	.000	BETAO	-	.000
CLV-O	-	5.000	AIL-O	-	.000
RUD-O	-	.000	I-ORB	-	6.000

ABC 14-0880-1 CA23 747/1 (-S1-S12) 01 AT1 (MATED)

(AE9052) (05 MAY 75)

DATE 13 NOV 75

TABULATED SOURCE DATA - CA23A

PAGE 113

ARC14-080-1 CA23 747/1 (-S1-S12)01 AT1(MATED)

(AES054) (05 MAY 75)

REFERENCE DATA

SREF = 5500.0000 SQ.FT. XMRP = 1339.9000 IN. XC
 LREF = 327.7800 IN. YMRP = .0000 IN. YC
 BREF = 2348.0400 IN. ZMRP = 190.7500 IN. ZC
 SCALE = .0125

PARAMETRIC DATA

BETAC = .000 STAB-C = 5.000
 RUO-C = .000 BETAO = .000
 ELV-O = 5.000 AIL-O = .000
 RUO-O = .000 I-ORR = 8.000

RUN NO. 54/ 0 RN/L = 3.44 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAC	ALPHA	BETA	CPC	CPSB1	CPSB2	CP14	CP15	CP16	CP17
.596	-2.920	5.51000	.00000	.00760	.00700	.00000	-20520	.13510	.04170	.00090
.604	-1.870	6.59000	.00000	.00030	.00160	.00000	-21120	.12830	.03110	-.00300
.603	-.760	7.72000	.00000	.00670	.00670	.00000	-20680	.12800	.03820	.00270
.600	.340	8.84000	.00000	.00550	.00490	.00000	-21180	.12440	.03960	-.00110
.600	1.490	10.01000	.00000	.00380	.00340	.00000	-21610	.12340	.04490	-.00130
.601	2.570	11.11000	.00000	.00430	.00260	.00000	-21440	.12260	.04790	-.00170
.602	3.700	12.27000	.00000	.00440	.00000	.00000	-22050	.12400	.05160	-.00060
.602	4.780	13.37000	.00000	.00630	.00430	.00000	-22870	.12340	.05250	-.00100
.602	5.830	14.45000	.00000	.00720	.00180	.00000	-23080	.12360	.05770	.00120
.602	6.950	15.58000	.00000	.00550	.00120	.00000	-24870	.12410	.05650	.00020
	GRADIENT	1.02013	-.00129	.00006	-.00008	.00000	-.00255	-.00129	.00230	-.00013

ARC14-080-1 CA23 747/1 (-S1-S12)05 AT1(MATED)

(AES055) (05 MAY 75)

REFERENCE DATA

SREF = 5500.0000 SQ.FT. XMRP = 1339.9000 IN. XC
 LREF = 327.7800 IN. YMRP = .0000 IN. YC
 BREF = 2348.0400 IN. ZMRP = 190.7500 IN. ZC
 SCALE = .0125

PARAMETRIC DATA

BETAC = .000 STAB-C = 5.000
 RUO-C = .000 BETAO = .000
 ELV-O = 5.000 AIL-O = .000
 RUO-O = .000 I-ORR = 8.000

RUN NO. 55/ 0 RN/L = 3.47 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAC	ALPHA	BETA	CPC	CPSB1	CPSB2	CP14	CP15	CP16	CP17
.604	-1.830	6.62000	.00000	.00370	.00270	.00000	-20840	.12850	.03540	.00230
.602	.340	8.83000	.00000	.00040	.00030	.00000	-21150	.12300	.03720	-.00270
.603	2.610	11.15000	.00000	.00460	.00460	.00000	-21120	.12320	.03230	.00260
.603	4.820	13.41000	.00000	.00610	.00320	.00000	-22230	.12100	.05490	-.00020
.603	6.960	15.60000	.00000	.01270	.00110	.00000	-23660	.12820	.05670	.00540
	GRADIENT	1.02116	.00046	.00055	-.00060	.00000	-.00166	-.00100	.00332	.00053

REPRODUCIBILITY OF THE
 ORIGINAL PAGE IS POOR

DATE 13 NOV 75

TABULATED SOURCE DATA - CA23A

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ARC14-080-1 CA23 747/1 (-S1-S12)03 AT1 (MATED)

(AE9056) (05 MAY 75)

REFERENCE DATA

SREF = 5500.0000 SQ.FT. XMRP = 1339.9000 IN. XC
 LREF = 327.7800 IN. YMRP = .0000 IN. YC
 BREF = 2348.0400 IN. ZMRP = 190.7500 IN. ZC
 SCALE = .0125

PARAMETRIC DATA

BETAC = .000 STAB-C = -1.000
 RUD-C = .000 BETAO = .000
 ELY-O = 5.000 AIL-O = .000
 RUD-O = .000 I-OR8 = 4.000

RUN NO. 56/ 0 RN/L = 3.33 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAC	ALPHA	BETA	CPC	CPSB1	CPSB2	CPI4	CPI5	CPI6	CPI7
.590	-2.930	1.41000	.01000	-.00440	-.00890	.00000	-.08300	.10360	.06110	-.00540
.590	-1.840	2.51000	.00000	.00070	-.00340	.00000	-.07740	.10620	.06680	-.00370
.591	-.760	3.61000	.00000	-.00110	-.00660	.00000	-.07900	.10650	.06420	-.00420
.590	-.360	4.75000	.00000	.00050	-.00460	.00000	-.07680	.10620	.06480	-.00330
.590	1.450	5.85000	.00000	-.00140	-.01000	.00000	-.07910	.10610	.06700	-.00350
.590	2.540	6.96000	.00000	.00280	-.00600	.00000	-.07180	.10700	.07070	-.00290
.589	3.640	8.08000	.00000	-.01050	-.01570	.00000	-.07830	.10040	.06420	-.01360
.588	4.730	9.18000	.00000	-.00250	-.01110	.00000	-.07170	.10240	.06670	-.00630
.588	5.810	10.29000	.00000	.00620	-.01370	.00000	-.07030	.10000	.06930	-.00820
.588	6.920	11.41000	.00000	-.00070	-.01100	.00000	-.06580	.10400	.07340	-.00270
	GRADIENT	1.01500	-.00076	-.00041	-.00088	.00000	.00102	-.00039	.00052	-.00057

ARC14-080-1 CA23 747/1 03 AT1 (MATED)

(AE9057) (05 MAY 75)

REFERENCE DATA

SREF = 5500.0000 SQ.FT. XMRP = 1339.9000 IN. XC
 LREF = 327.7800 IN. YMRP = .0000 IN. YC
 BREF = 2348.0400 IN. ZMRP = 190.7500 IN. ZC
 SCALE = .0125

PARAMETRIC DATA

BETAC = .000 STAB-C = -1.000
 RUD-C = .000 BETAO = .000
 ELY-O = 5.000 AIL-O = .000
 RUD-O = .000 I-OR8 = 4.000

RUN NO. 57/ 0 RN/L = 3.41 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAC	ALPHA	BETA	CPC	CPSB1	CPSB2	CPI4	CPI5	CPI6	CPI7
.591	-3.080	1.27000	.01000	.00440	-.00310	.00000	-.06490	.11220	.06580	.00230
.589	-1.990	2.37000	.00000	-.00020	-.00710	.00000	-.07100	.10650	.06230	-.00780
.589	-.870	3.51000	.00000	.00250	-.00870	.00000	-.07020	.10610	.06210	-.00800
.589	.210	4.61000	.00000	-.00230	-.00570	.00000	-.07240	.10380	.06360	-.00640
.590	1.320	5.74000	.00000	.00000	-.00860	.00000	-.07100	.10400	.06550	-.00380
.589	2.430	6.87000	.00000	-.00310	-.01240	.00000	-.06950	.10220	.06800	-.00480
.589	3.520	7.97000	.00000	-.00100	-.00790	.00000	-.06090	.10590	.07010	-.00340
.588	4.610	9.08000	.00000	-.00480	-.01240	.00000	-.06480	.09910	.06250	-.00890
.588	5.690	10.18000	.00000	-.00070	-.00830	.00000	-.05930	.10370	.07060	-.00310
.586	6.790	11.29000	.00000	-.00440	-.01070	.00000	-.06060	.10050	.06620	-.00960
	GRADIENT	1.01613	-.00076	-.00073	-.00090	.00000	.00059	-.00115	.00032	-.00047

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TABULATED SOURCE DATA - CA23A

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ARC14-080-1 CA23 747/11-51-512103 AT1 (MATED)

(AE9058) (05 MAY 75)

REFERENCE DATA

SREF = 5500.0000 SO.FT.
 LREF = 327.7900 IN.
 BREF = 2348.0400 IN.
 SCALE = .0125

BETAC = .000 STAB-C = -1.000
 RUJ-C = .000 BETAO = .000
 ELV-O = .000 AIL-O = .000
 RUJ-O = .000 I-008 = 4.000

RUN NO. 58/ 0 RN/L = 3.43 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAC	ALPHA	BETA	CPC	CPS81	CPS82	CP14	CP15	CP16	CP17
.595	-3.020	1.29000	.00000	-.00640	-.01280	.00000	-.09910	.10210	.05430	-.00990
.593	-1.890	2.43000	.00000	-.00980	-.01420	.00000	-.10360	.10340	.05380	-.01010
.593	-.780	3.55000	.00000	-.00700	-.01440	.00000	-.09840	.10560	.05190	-.01040
.592	.320	4.68000	.00000	-.00660	-.01340	.00000	-.09790	.10500	.05330	-.01210
.590	1.450	5.82000	.00000	-.01200	-.01680	.00000	-.09970	.10430	.05260	-.01200
.590	2.530	6.91000	.00000	-.01170	-.01820	.00000	-.09550	.10460	.05570	-.01140
.590	3.630	8.04000	-.01000	-.01250	-.01970	.00000	-.09720	.10190	.05430	-.01460
.591	4.710	9.13000	.00000	-.01110	-.01690	.00000	-.09180	.10230	.06100	-.01390
.591	5.770	10.21000	.00000	-.01190	-.01710	.00000	-.08960	.09920	.06090	-.01430
.590	6.860	11.32000	.00000	-.01440	-.02120	.00000	-.08850	.10090	.06310	-.01610
	GRADIENT	1.01487	-.00054	-.00071	-.00077	.00000	.00097	-.00010	.00063	-.00061

REFERENCE DATA

SREF = 5500.0000 SO.FT.
 LREF = 327.7900 IN.
 BREF = 2348.0400 IN.
 SCALE = .0125

BETAC = .000 STAB-C = -1.000
 RUJ-C = .000 BETAO = .000
 ELV-O = .000 AIL-O = .000
 RUJ-O = .000 I-008 = 4.000

RUN NO. 59/ 0 RN/L = 3.41 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAC	ALPHA	BETA	CPC	CPS81	CPS82	CP14	CP15	CP16	CP17
.589	-2.010	2.32000	.00000	-.01190	-.01430	.00000	-.09060	.10180	.05230	-.01300
.589	.170	4.53000	.00000	-.01130	-.01610	.00000	-.09090	.10360	.05210	-.01270
.589	2.380	6.77000	.00000	-.01130	-.01960	.00000	-.09040	.09910	.04950	-.01410
.589	4.580	9.01000	.00000	-.00980	-.01940	.00000	-.08540	.10110	.05750	-.01150
.589	6.720	11.18000	.00000	-.01060	-.01880	.00000	-.07990	.10240	.06190	-.01370
	GRADIENT	1.01501	.00000	.00029	-.00086	.00000	.00073	-.00030	.00059	.00014

ARC14-080-1 CA23 747/1 03 AT1 (MATED)

(AE9059) (05 MAY 75)

DATE 13 NOV 75

TABULATED SOURCE DATA - CA23A

ARC14-080-1 CA23 747/1 03 AT1 (MATED)

(AES060) (05 MAY 75)

REFERENCE DATA

SREF = 5500.0000 SQ.FT.
LREF = 327.7800 IN.
BREF = 2348.0400 IN.
SCALE = .0125

XMRP = 1339.9000 IN. XC
YMRP = .0000 IN. YC
ZMRP = 190.7500 IN. ZC

RUN NO. 60/ 0 RN/L = 3.40 GRADIENT INTERVAL = -5.00/ 5.00

MACH .589
ALPHAC .270
ALPHA 6.78000
BETA .00000
CPC -.00240
GRADIENT 1.01604

BETAC = .000
RUD-C = .000
ELV-O = .000
RUD-O = .000

PARAMETRIC DATA

CP15 .10500
CP16 .05900
CP17 -.00590
STAB-C = -1.000
BETAO = .000
AIL-O = .000
I-ORR = 6.000

ARC14-080-1 CA23 747/1 03 AT1 (MATED)

(AES061) (05 MAY 75)

REFERENCE DATA

SREF = 5500.0000 SQ.FT.
LREF = 327.7800 IN.
BREF = 2348.0400 IN.
SCALE = .0125

XMRP = 1339.9000 IN. XC
YMRP = .0000 IN. YC
ZMRP = 190.7500 IN. ZC

RUN NO. 61/ 0 RN/L = 3.45 GRADIENT INTERVAL = -5.00/ 5.00

MACH .598
ALPHAC -3.110
ALPHA 1.21000
BETA -5.11000
CPC -.01450
GRADIENT 1.01677

BETAC = -5.000
RUD-C = .000
ELV-O = .000
RUD-O = .000

PARAMETRIC DATA

CP14 -.05100
CP15 .10830
CP16 .04480
CP17 -.01790
STAB-C = -1.000
BETAO = -.01740
AIL-O = -.01760
I-ORR = -.02160
CP14 -.05100
CP15 .10830
CP16 .04480
CP17 -.01790
STAB-C = -1.000
BETAO = -.01740
AIL-O = -.01760
I-ORR = -.02160

CPS81 -.02060
CPS82 .00000
CPS83 .00000
CPS84 .00000
CPS85 .00000
CPS86 .00000
CPS87 .00000
CPS88 .00000
CPS89 .00000
CPS90 .00000
CPS91 .00000
CPS92 .00000
CPS93 .00000
CPS94 .00000
CPS95 .00000
CPS96 .00000
CPS97 .00000
CPS98 .00000
CPS99 .00000
CPS100 .00000

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TABULATED SOURCE DATA - CA23A

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ARC14-080-1 CA23 747/1(-S1-S12)03 AT(I)MATED)

(AES062) (05 MAY 75)

REFERENCE DATA

SREF = 5500.0000 SQ.FT. XMRP = 1339.9000 IN. XC
 LREF = 327.7800 IN. YMRP = .0000 IN. YC
 BREF = 2348.0400 IN. ZMRP = 190.7500 IN. ZC
 SCALE = .0125

PARAMETRIC DATA

BETAC = -5.000 STAB-C = -1.000
 RUO-C = .000 BETAO = -5.000
 ELV-C = .000 AIL-O = .000
 RUO-O = .000 I-ORB = 4.000

RUN NO. 62/ 0 RN/L = 3.42 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAC	ALPHA	BETA	CPC	CPSB1	CPSB2	CPI4	CPI5	CPI6	CPI7
.598	-3.040	1.27000	-5.11000	-0.1820	-0.2330	.00000	-0.05730	.10680	.04350	-.02020
.598	-1.850	2.48000	-5.11000	-0.1640	-0.02410	.00000	-.05950	.10400	.04600	-.02140
.602	-.790	3.56000	-5.11000	-0.1900	-0.02510	.00000	-.06340	.09900	.05020	-.02160
.600	.290	4.66000	-5.11000	-0.1530	-0.01830	.00000	-.06400	.09350	.05460	-.02270
.597	1.430	5.81000	-5.09000	-0.2160	-0.02970	.00000	-.06820	.07600	.04930	-.03240
.599	2.580	6.99000	-5.08000	-0.1760	-0.02770	.00000	-.06570	.07190	.05240	-.02730
.601	3.680	8.10000	-5.07000	-0.1510	-0.02410	.00000	-.05560	.07020	.05750	-.02680
.601	4.720	9.16000	-5.05000	-0.2070	-0.02810	.00000	-.06100	.05700	.05160	-.03380
.601	5.790	10.24000	-5.03000	-0.1980	-0.02580	.00000	-.05800	.05250	.05080	-.03280
.602	6.940	11.41000	-5.02000	-0.1570	-0.02640	.00000	-.05250	.05410	.05680	-.03270
	GRADIENT	1.01663	.00771	-.00014	-.00056	.00000	-.00019	-.00661	.00124	-.00159

ARC14-080-1 CA23 747/1(-S1-S12)01 AT(I)MATED)

(AES063) (05 MAY 75)

REFERENCE DATA

SREF = 5500.0000 SQ.FT. XMRP = 1339.9000 IN. XC
 LREF = 327.7800 IN. YMRP = .0000 IN. YC
 BREF = 2348.0400 IN. ZMRP = 190.7500 IN. ZC
 SCALE = .0125

PARAMETRIC DATA

BETAC = -5.000 STAB-C = 5.000
 RUO-C = .000 BETAO = -5.000
 ELV-O = 5.000 AIL-O = .000
 RUO-O = .000 I-ORB = 8.000

RUN NO. 63/ 0 RN/L = 3.42 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAC	ALPHA	BETA	CPC	CPSB1	CPSB2	CPI4	CPI5	CPI6	CPI7
.595	-2.980	5.47000	-5.11000	.00470	-.00180	.00000	-.22900	.11720	.03590	.00160
.597	-1.820	6.65000	-5.12000	-.00140	-.00810	.00000	-.22730	.11550	.03280	-.00200
.598	-.740	7.75000	-5.11000	.00450	.00080	.00000	-.22440	.11740	.04050	.00040
.596	.390	8.90000	-5.11000	.00030	-.00480	.00000	-.23840	.11000	.03490	.00270
.597	1.490	10.02000	-5.10000	-.00130	-.00500	.00000	-.24270	.10670	.03370	-.00940
.596	2.550	11.10000	-5.09000	.00490	.00060	.00000	-.23750	.11600	.04040	-.00420
.600	3.670	12.24000	-5.07000	-.00330	-.00620	.00000	-.24190	.10980	.03600	-.00900
.600	4.790	13.39000	-5.06000	-.00420	-.01030	.00000	-.24890	.10280	.03910	-.01300
.598	5.860	14.47000	-5.04000	.00000	-.00710	.00000	-.24810	.10180	.04850	-.00540
.597	6.990	15.62000	-5.03000	-.00420	-.00960	.00000	-.25370	.09300	.04660	-.00930
	GRADIENT	1.01810	.00720	-.00078	-.00056	.00000	-.00276	-.00148	.00039	-.00170

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TABULATED SOURCE DATA - CA23A

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ARC14-080-1 CA23 747/1 (-S1-S12)01 ATI (MATED)

(AE9054) (05 MAY 75)

REFERENCE DATA

SREF = 5500.0000 SQ.FT.
 LREF = 327.7800 IN.
 BREF = 2348.0400 IN.
 SCALE = .0125

XMRP = 1339.9000 IN. XC
 YMRP = .0000 IN. YC
 ZMRP = 190.7500 IN. ZC

BETAC = -5.000 STAB-C = 5.000
 RUO-C = .000 BETAO = -5.000
 ELV-O = 5.000 AIL-O = .000
 RUO-O = .000 I-OR8 = 6.000

PARAMETRIC DATA

RUN NO. 64/ 0 RN/L = 3.45 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAC	ALPHA	BETA	CPC	CPSB1	CPSB2	CP14	CP15	CP16	CP17
.596	-3.700	3.49000	-5.12000	-.00690	-.01300	.00000	-.23500	.11580	.02190	-.01170
.595	-1.920	4.59000	-5.12000	-.00410	-.00990	.00000	-.23220	.11710	.02640	-.00750
.593	-.770	5.75000	-5.11000	-.00500	-.01050	.00000	-.24080	.11490	.02780	-.01050
.593	.340	6.88000	-5.10000	-.00040	-.00350	.00000	-.23710	.11510	.03620	-.00960
.593	1.410	7.96000	-5.09000	-.00420	-.01010	.00000	-.24220	.10910	.03620	-.01380
.593	2.550	9.13000	-5.08000	-.00130	-.00950	.00000	-.24260	.11180	.03770	-.01080
.592	3.640	10.23000	-5.07000	-.00440	-.01120	.00000	-.24680	.11020	.03950	-.01400
.592	4.740	11.36000	-5.06000	-.00410	-.01030	.00000	-.24520	.10940	.04120	-.01170
.591	5.820	12.46000	-5.04000	-.00610	-.01120	.00000	-.24760	.10640	.04450	-.01330
.590	6.930	13.58000	-5.02000	-.01040	-.01830	.00000	-.25300	.10040	.04350	-.01900
	GRADIENT	1.01613	.00828	.00027	.00010	.00006	-.00167	-.00102	.00248	-.00040

ARC14-080-1 CA23 747/1 01 ATI (MATED)

(AE9065) (05 MAY 75)

REFERENCE DATA

SREF = 5500.0000 SQ.FT.
 LREF = 327.7800 IN.
 BREF = 2348.0400 IN.
 SCALE = .0125

XMRP = 1339.9000 IN. XC
 YMRP = .0000 IN. YC
 ZMRP = 190.7500 IN. ZC

BETAC = -5.000 STAB-C = 5.000
 RUO-C = .000 BETAO = -5.000
 ELV-O = 5.000 AIL-O = .000
 RUO-O = .000 I-OR8 = 6.000

PARAMETRIC DATA

RUN NO. 65/ 0 RN/L = 3.48 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAC	ALPHA	BETA	CPC	CPSB1	CPSB2	CP14	CP15	CP16	CP17
.604	-3.120	3.38000	-5.11000	-.00980	-.01750	.00000	-.23580	.11230	.01640	-.01350
.604	-1.970	4.54000	-5.12000	-.00700	-.01260	.00000	-.23240	.11510	.02260	-.00530
.603	-.890	5.65000	-5.11000	-.00280	-.00260	.00000	-.22870	.12550	.03110	-.00360
.602	.200	6.76000	-5.11000	-.00100	-.00460	.00000	-.23240	.12030	.03310	-.00930
.602	1.310	7.88000	-5.10000	.00170	-.00460	.00000	-.23310	.11390	.03910	-.00570
.601	2.420	9.00000	-5.09000	.00180	-.00520	.00000	-.24030	.11270	.04040	-.01150
.600	3.520	10.13000	-5.07000	-.00260	-.00700	.00000	-.24910	.11270	.03840	-.01200
.601	4.650	11.28000	-5.06000	-.00640	-.01080	.00000	-.24920	.10290	.03720	-.01580
.601	5.730	12.38000	-5.04000	-.00910	-.01580	.00000	-.24760	.10150	.03890	-.01710
.602	6.860	13.52000	-5.03000	-.00970	-.01400	.00000	-.25030	.10030	.04720	-.01530
	GRADIENT	1.01658	.00721	.00037	.00072	.00000	-.00229	-.00132	.00278	-.00075

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TABULATED SOURCE DATA - C-23A

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ARC14-080-1 CA23 747/1 01 ATI (MATED)

(AE9066) (05 MAY 75)

REFERENCE DATA

SREF = 5500.0000 SQ.FT.
 LREF = 327.7800 IN.
 BREF = 2348.0400 IN.
 SCALE = .0125

XMRP = 1339.9000 IN. XC
 YMRP = .0000 IN. YC
 ZMRP = 190.7500 IN. ZC

PARAMETRIC DATA

BETAC = -5.0J0 STAB-C = 5.000
 RUO-C = .000 BETAO = -5.000
 ELV-O = 5.000 AIL-O = .000
 RUO-O = .000 I-ORR = 4.000

RUN NO. 66/ 0 RN/L = 3.48 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAC	ALPHA	BETA	CPC	CPSB1	CPSB2	CP14	CP15	CP16	CP17
.597	-3.160	1.19000	-5.11000	.00040	-.00570	.00000	-.23610	.12860	.02440	-.00440
.599	-2.040	2.33000	-5.11000	-.00630	-.01270	.00000	-.24150	.11750	.01920	-.01170
.600	-.940	3.44000	-5.11000	-.00170	-.00470	.00000	-.23720	.12500	.01980	-.00940
.600	.160	4.56000	-5.10000	-.00570	-.01010	.00000	-.23800	.12050	.02480	-.01180
.599	1.270	5.63000	-5.09000	-.00630	-.01140	.00000	-.24170	.11290	.03340	-.01470
.598	2.390	6.82000	-5.08000	-.01070	-.01510	.00000	-.24730	.10730	.03190	-.02080
.579	3.460	7.92000	-5.07000	-.00840	-.01380	.00000	-.24770	.10990	.03560	-.01620
.598	4.590	9.07000	-5.06000	-.01230	-.01700	.00000	-.25320	.10130	.03200	-.02110
.598	5.680	10.17000	-5.04000	-.01110	-.01720	.00000	-.24990	.10300	.03750	-.02050
.599	6.790	11.30000	-5.02000	-.01370	-.02110	.00000	-.24970	.10040	.04170	-.01840
	GRADIENT	1.01647	.00700	-.00137	-.00126	.00000	-.00199	-.00297	.00195	-.00190

ARC14-080-1 CA23 747/1 01 ATI (MATED)

(AE9067) (05 MAY 75)

REFERENCE DATA

SREF = 5500.0000 SQ.FT.
 LREF = 327.7800 IN.
 BREF = 2348.0400 IN.
 SCALE = .0125

XMRP = 1339.9000 IN. XC
 YMRP = .0000 IN. YC
 ZMRP = 190.7500 IN. ZC

PARAMETRIC DATA

BETAC = -5.000 STAB-C = 5.000
 RUO-C = .000 BETAO = -5.000
 ELV-O = 5.000 AIL-O = .000
 RUO-O = .000 I-ORR = 8.000

RUN NO. 67/ 0 RN/L = 3.47 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAC	ALPHA	BETA	CPC	CPSB1	CPSB2	CP14	CP15	CP16	CP17
.595	-3.070	5.39000	-5.11000	-.01650	-.02430	.00000	-.23560	.11900	.01640	-.01690
.602	-1.930	6.53000	-5.11000	-.00380	-.00350	.00000	-.22050	.11560	.03480	.00080
.601	-.840	7.65000	-5.11000	.00210	-.00290	.00000	-.22620	.11260	.03660	.00010
.600	.260	8.77000	-5.10000	.00230	-.00200	.00000	-.23390	.10950	.03630	-.00340
.599	1.390	9.93000	-5.10000	-.0210	-.00780	.00000	-.23560	.11130	.03600	-.00640
.597	2.460	11.02000	-5.08000	-.01310	-.00680	.00000	-.24440	.11140	.03680	-.01390
.598	3.580	12.16000	-5.07000	-.00440	-.00230	.00000	-.23950	.11110	.04550	-.00670
.598	4.690	13.29000	-5.06000	-.00210	-.00650	.00000	-.24680	.10460	.04600	-.01080
.599	5.790	14.40000	-5.04000	-.00400	-.00760	.00000	-.24630	.10280	.05520	-.00700
.598	6.880	15.51000	-5.02000	-.00510	-.01190	.00000	-.25250	.09590	.05280	-.01050
	GRADIENT	1.01851	.00688	.00080	.00122	.00000	-.00246	-.00135	.00281	-.00042

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TABULATED SOURCE DATA - CA23A

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ARC14-080-1 CA23 747/1 01 AT2 (MATED)

(AE9068) (05 MAY 75)

REFERENCE DATA

SREF = 5500.0000 SQ.FT.
 LREF = 327.7800 IN.
 BREF = 2348.0400 IN.
 SCALE = .0125

XTRP = 1339.9000 IN. XC
 YTRP = .0000 IN. YC
 ZTRP = 190.7500 IN. ZC

PARAMETRIC DATA

BETAC = -5.000 STAB-C = 5.000
 RUO-C = .000 BETAO = -5.000
 ELV-O = 5.000 AIL-O = .000
 RUO-O = .000 I-OR8 = 6.000

RUN NO. 68/ 0 RN/L = 3.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAC	ALPHA	BETA	CPC	CPS81	CPS82	CP14	CP15	CP16	CP17
.599	-3.110	3.37000	-5.09000	-.00660	-.01270	.00000	-.23180	.11070	.02780	-.01000
.601	-1.930	4.57000	-5.09000	.00370	-.00880	.00000	-.21690	.12120	.03520	-.00670
.599	-.860	5.66000	-5.09000	-.00950	-.01520	.00000	-.23910	.10600	.03040	-.01490
.597	.230	6.76000	-5.08000	-.00750	-.01460	.00000	-.23770	.10810	.03320	-.01590
.603	1.370	7.92000	-5.07000	-.00730	-.01050	.00000	-.24190	.09620	.04130	-.01770
.601	2.410	8.98000	-5.06000	-.00460	-.01530	.00000	-.24290	.09510	.04190	-.01430
.602	3.540	10.13000	-5.05000	-.01150	-.02060	.00000	-.25010	.09790	.03770	-.02190
.602	4.670	11.28000	-5.04000	-.00680	-.01580	.00000	-.24570	.09780	.04590	-.01580
.602	5.730	12.36000	-5.02000	-.01300	-.02170	.00000	-.25320	.09420	.04180	-.01560
.601	6.870	13.52000	-5.00000	-.00700	-.01370	.00000	-.25530	.09910	.04790	-.01640
	GRADIENT	1.01649	.00700	-.00067	-.00082	.00000	-.00299	-.03270	.00197	-.00125

ARC14-080-1 CA23 747/1 01 AT3 (MATED)

(AE9069) (05 MAY 75)

REFERENCE DATA

SREF = 5500.0000 SQ.FT.
 LREF = 327.7800 IN.
 BREF = 2348.0400 IN.
 SCALE = .0125

XTRP = 1339.9000 IN. XC
 YTRP = .0000 IN. YC
 ZTRP = 190.7500 IN. ZC

PARAMETRIC DATA

BETAC = -5.000 STAB-C = 5.000
 RUO-C = .000 BETAO = -5.000
 ELV-O = 5.000 AIL-O = .000
 RUO-O = .000 I-OR8 = 6.000

RUN NO. 69/ 0 RN/L = 3.43 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAC	ALPHA	BETA	CPC	CPS81	CPS82	CP14	CP15	CP16	CP17
.598	-3.060	3.43000	-5.10000	-.00040	-.00720	.00000	-.22360	.11750	.02400	-.00550
.598	-1.940	4.56000	-5.10000	-.00040	-.00690	.00000	-.22860	.11640	.02630	-.00580
.601	-.870	5.66000	-5.09000	-.00920	-.01260	.00000	-.24130	.11340	.01570	-.01590
.602	.220	6.76000	-5.09000	-.00600	-.01130	.00000	-.23180	.11420	.02290	-.01440
.602	1.340	7.91000	-5.08000	-.00360	-.00930	.00000	-.23630	.10670	.02820	-.01470
.598	2.430	9.01000	-5.07000	-.00410	-.01120	.00000	-.23780	.10380	.03440	-.01390
.599	3.520	10.12000	-5.05000	-.00550	-.01470	.00000	-.24130	.09730	.03170	-.01400
.599	4.620	11.24000	-5.04000	-.01060	-.01840	.00000	-.24550	.08690	.02970	-.02110
.600	5.710	12.35000	-5.02000	-.00740	-.01750	.00000	-.24320	.08800	.03200	-.01340
.601	6.830	13.49000	-5.01000	-.01510	-.02280	.00000	-.25270	.08270	.03110	-.02180
	GRADIENT	1.01727	.00804	-.00086	-.00121	.00000	-.00229	-.00387	.00140	-.00157

DATE 13 NOV 75

TABULATED SOURCE DATA - CA23A

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ARC14-080-1 CA23 747/1 01 AT3 (MATED)

(AE90701) (05 MAY 75)

REFERENCE DATA

SREF = 5500.0000 SQ.FT.
 LREF = 327.7800 IN.
 BREF = 2348.0400 IN.
 SCALE = .0125

XMRP = 1339.9000 IN. XC
 YMRP = .0000 IN. YC
 ZMRP = 190.7500 IN. ZC

BETAC = .000 STAB-C = 5.000
 RUO-C = .000 BETAO = .000
 ELV-O = 5.000 AIL-O = .000
 RUO-O = .000 I-ORR = 6.000

PARAMETRIC DATA

RUN NO. 70/ 0 RN/L = 3.48 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAC	ALPHA	BETA	CPC	CPSB1	CPSB2	CP14	CP15	CP16	CP17
.599	-2.840	3.65000	.00000	-.00080	-.00490	.00000	-.21840	.12620	.03330	-.00180
.598	-1.770	4.73000	.00000	.00470	.00030	.00000	-.21280	.12720	.03820	-.00140
.597	-.680	5.84000	.00000	-.00150	-.00590	.00000	-.22020	.12040	.03310	-.00360
.600	.420	6.96000	.00000	.00240	-.00270	.00000	-.21830	.12240	.03780	.00170
.601	1.570	8.14000	.00000	.00500	-.00480	.00000	-.21460	.12160	.04160	.00230
.599	2.660	9.24000	.00000	-.00140	-.00480	.00000	-.22240	.11820	.03810	-.00380
.599	3.730	10.33000	.00000	-.00220	-.01130	.00000	-.22460	.11400	.03430	-.03180
.599	4.820	11.44000	.00000	.00130	-.00310	.00000	-.22850	.11820	.04220	.00000
.601	5.920	12.56000	.00000	.00290	-.00450	.00000	-.23080	.12240	.04770	-.00050
.599	7.040	13.71000	-.01000	.00560	-.00320	.00000	-.23510	.12660	.05150	.12660
	GRADIENT	1.01756	.00000	-.00018	-.00048	.00000	-.00143	-.00147	.00067	-.00004

REFERENCE DATA

SREF = 5500.0000 SQ.FT.
 LREF = 327.7800 IN.
 BREF = 2348.0400 IN.
 SCALE = .0125

XMRP = 1339.9000 IN. XC
 YMRP = .0000 IN. YC
 ZMRP = 190.7500 IN. ZC

BETAC = .000 STAB-C = 5.000
 RUO-C = .000 BETAO = .000
 ELV-O = 5.000 AIL-O = .000
 RUO-O = .000 I-ORR = 6.000

PARAMETRIC DATA

RUN NO. 71/ 0 RN/L = 3.48 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAC	ALPHA	BETA	CPC	CPSB1	CPSB2	CP14	CP15	CP16	CP17
.601	-2.850	3.63000	.00000	.00090	-.00650	.00000	-.21380	.12590	.03820	-.00250
.600	-1.760	4.73000	.00000	-.00030	-.00300	.00000	-.21690	.12450	.03610	-.00400
.598	-.670	5.85000	.00000	-.00010	-.00480	.00000	-.21600	.12380	.03780	-.00580
.600	.420	6.96000	.00000	.00130	-.00610	.00000	-.22290	.11730	.03400	-.00310
.601	1.560	8.12000	.00000	.00180	-.00500	.00000	-.21500	.11940	.03940	-.00330
.600	2.630	9.21000	.00000	.00170	-.00500	.00000	-.22410	.11530	.03880	-.00370
.600	3.730	10.32000	.00000	-.00170	-.00970	.00000	-.22580	.11530	.04080	-.00440
.601	4.810	11.43000	.00000	-.00090	-.00830	.00000	-.22840	.11560	.04420	-.00420
.601	5.930	12.53000	-.01000	.00020	-.00920	.00000	-.23140	.12120	.04990	-.00210
.601	7.000	13.66000	-.01000	.00030	-.00680	.00000	-.23870	.12050	.05010	.00000
	GRADIENT	1.01824	.00000	-.00015	-.00049	.00000	-.00177	-.00184	.00080	-.00008

ARC14-080-1 CA23 747/1 01 AT2 (MATED)

(AE90711) (05 MAY 75)

DATE 13 NOV 75

TABULATED SOURCE DATA - CA23A

ARC14-C80-1 CA23 747/1 01 AT1 (CAR.MATED)

(YESF24) (12 MAY 75)

REFERENCE DATA

SREF = 5500.0000 SQ.FT. XMRP = 1339.9000 IN. XC
LREF = 327.7800 IN. YMRP = .0000 IN. YC
BREF = 2348.0400 IN. ZMRP = 190.7500 IN. ZC
SCALE = .0125

PARAMETRIC DATA

BETAC = .000 STAB-C = 5.000
RUD-C = .000 BETAO = .000
ELV-O = 5.000 AIL-O = .000
RUD-O = .000 IADRB = 6.000
BETA = .000

RN/L = 3.52 GRADIENT INTERVAL = -5.00/ 5.00

MACH = .600
ALPHAC = -3.000
-2.000
-1.000
.000
1.000
2.000
3.000
4.000
5.000
6.000
GRADIENT

CD	CY	CL	CSL	CLM	CLN	CN	CA	CBL	CYN
.05729	.00348	-.29496	.00036	-.02281	-.00097	-.29756	.04178	.00031	-.00098
.05170	.00344	-.21375	.00075	-.04329	-.00091	-.21543	.04421	.00072	-.00094
.04881	.00888	-.13632	.00044	-.05794	-.00122	-.13715	.04642	.00042	-.00123
.04833	.00727	-.04063	.00076	-.07797	-.00114	-.04063	.04833	.00073	-.00114
.04897	.00754	.03802	.00045	-.09304	-.00104	.03887	.04830	.00047	-.00103
.05036	.00914	.12027	.00026	-.11054	-.00120	.12195	.04614	.00022	-.00121
.05318	.00928	.19853	.00076	-.13171	-.00115	.20104	.04272	.00082	-.00111
.05663	.01010	.27530	.00159	-.14983	-.00096	.27858	.03729	.00166	-.00084
.06100	.01140	.35815	.00126	-.16425	-.00103	.36210	.02955	.00134	-.00091
.06679	.01162	.43365	.00155	-.17515	-.00115	.43826	.02109	.00166	-.00099
.00067	.00091	.08184	.00010	-.01776	-.00000	.08266	-.00132	.00011	.00001

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TABULATED SOURCE DATA - CA23A

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ARC14-080-1 CA23 747/1 01 AT1 (CAR.MATED)

(YESF27) (12 MAY 75)

REFERENCE DATA

SREF = 5500.0000 SO.FT. XMRP = 1339.9000 IN. XC
 .REF = 327.7800 IN. YMRP = .0000 IN. YC
 BREF = 2348.0400 IN. ZMRP = 190.7500 IN. ZC
 SCALE = .0125

PARAMETRIC DATA

BETAC = .000 STAB-C = 5.000
 RUD-C = 10.000 BETAO = .000
 ELV-O = 5.000 AIL-O = .000
 RUD-O = .000 IACRB = 6.000
 BETA = .000

RN/L = 3.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAC	CD	CY	CL	CSL	CLM	CLN	CN	CA	CEL	CYN
.600	.05737	.03223	.30490	.0381	.02404	.01614	.30748	.04133	.00286	.01631	
-3.000	.05186	.03338	.21676	.0384	.04562	.01615	.21844	.04426	.00327	.01628	
-1.000	.04865	.03434	.13091	.0427	.06267	.01610	.13174	.04636	.00399	.01617	
1.000	.04760	.03332	.05212	.0368	.07611	.01594	.05212	.04760	.00368	.01594	
2.000	.04765	.03385	.02721	.0395	.09378	.01607	.02804	.04717	.00423	.01600	
3.000	.04988	.03618	.11184	.0311	.11071	.01648	.11351	.04594	.00369	.01636	
4.000	.05291	.03502	.19137	.0259	.12864	.01625	.19388	.04282	.00343	.01610	
5.000	.05632	.03570	.26975	.0297	.14874	.01635	.27302	.03737	.00411	.01610	
6.000	.06087	.03838	.34533	.0276	.16354	.01662	.34933	.03054	.00420	.01631	
GRADIENT	.06625	.03932	.41873	.0257	.17282	.01665	.42336	.02212	.00430	.01629	
	.00064	.00060	.08115	.00018	.01723	.00006	.08197	.00121	.00011	.00000	

DATE 13 NOV 75

TABULATED SOURCE DATA - CA23A

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ARC14-080-1 CA23 747/1 01 AT1 (CAR.MATED)

(YESF29) (12 MAY 75)

REFERENCE DATA

SREF = 5500.0000 SQ.FT. XMRP = 1339.9000 IN. XC
LREF = 327.7800 IN. YMRP = .0000 IN. YC
BREF = 2348.0400 IN. ZMRP = 190.7500 IN. ZC
SCALE = .0125

PARAMETRIC DATA

BETAC = .000 STAB-C = -1.000
RUD-C = .000 BETAO = .000
ELV-O = 5.000 AIL-O = .000
RUD-O = .000 IAOB = 6.000
BETA = .000

RN/L = 3.41 GRADIENT INTERVAL = -5.00/ 5.00

MACH = .600

ALPHAC	CO	CY	CL	CSL	CLM	CLN	CN	CA	CSL	CYN
-3.000	.05808	.00726	-.3790	.00034	.29375	-.00140	-.38159	.03816	.00026	-.00141
-2.000	.05058	.00684	-.30039	.00031	.27783	-.00120	-.30198	.04006	.00027	-.00121
-1.000	.04581	.00637	-.22227	.00035	.26175	-.00101	-.22304	.04192	.00033	-.00102
.000	.04404	.00485	-.13617	.00020	.24844	-.00062	-.13617	.04404	.00020	-.00062
1.000	.04327	.00506	-.05447	.00052	.23421	-.00059	-.05370	.04421	.00053	-.00058
2.000	.04355	.00885	.03045	.00101	.21652	-.00092	.03195	.04246	.00105	-.00098
3.000	.04462	.01130	.11765	.00112	.19620	-.00104	.11983	.03840	.00117	-.00098
4.000	.04592	.01156	.19552	.00112	.17680	-.00107	.19825	.03217	.00119	-.00099
5.000	.04874	.01198	.26917	.00104	.16420	-.00124	.27239	.02509	.00115	-.00114
6.000	.05346	.01115	.34377	.00112	.15682	-.00120	.34747	.01724	.00124	-.00108
GRADIENT	-.00090	.00078	.08212	.00013	-.01641	.00001	.08284	-.00141	.00015	.00003

DATE 13 NOV 75

TABULATED SOURCE DATA - CA23A

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ARC14-080-1 CA23 747/1 01 AT1 (CAR.MATED)

(YESP30) (12 MAY 75)

REFERENCE DATA

SREF = 9500.0000 SQ.FT. XMRP = 1339.9000 IN. XC
 LREF = 327.7600 IN. YMRP = .0000 IN. YC
 BREF = 2348.0400 IN. ZMRP = 190.7500 IN. ZC
 SCALE = .0125

PARAMETRIC DATA

BETAC = .000 STAB-C = -1.000
 RUD-C = .000 BETAO = .000
 ELV-O = 10.000 AIL-O = .000
 RUD-O = .000 IACOB = 6.000
 BETA = .000

RN/L = 3.44 GRADIENT INTERVAL = -5.00/ 5.00

MACH =

.600

ALPHA

CO

CY

CL

CSL

CLM

CLN

CN

CA

CEL

CW

-3.000

.05715

.00763

-.39402

.00015

.35183

-.00160

-.39847

.03048

.00006

-.00161

-2.000

.04866

.00807

-.31771

-.00018

.33586

-.00135

-.31822

.03774

-.00022

-.00135

-1.000

.04407

.00903

-.23851

.00023

.32139

-.00140

-.23824

.03990

.00021

-.00140

.000

.04118

.00903

-.15386

.00052

.30177

-.00138

-.15386

.04118

.00052

-.00138

1.000

.03996

.01102

-.07493

.00061

.28795

-.00148

-.07422

.04127

.00064

-.00147

2.000

.04010

.01209

.01426

.00104

.27097

-.00147

.01565

.03958

.00109

-.00143

3.000

.04128

.01267

.10499

.00128

.24814

-.00157

.18701

.03972

.00136

-.00151

4.000

.04297

.01325

.17768

.00118

.23075

-.00158

.18024

.03947

.00129

-.00149

5.000

.04512

.01313

.24813

.00139

.21724

-.00133

.25112

.02332

.00150

-.00149

6.000

.04670

.01391

.32482

.00160

.20644

-.00151

.32814

.01448

.00175

-.00134

GRADIENT

-.00121

.00081

.08183

.00019

-.01718

.00008

.08251

-.00148

.00022

.00002

DATE 13 NOV 75

TABULATED SOURCE DATA - CA23A

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ARC14-080-1 CA23 747/1 01 AT1 (CAR.MATED)

(YESF31) (12 MAY 75)

REFERENCE DATA

SREF = 5500.0000 SQ.FT. XMRP = 1339.9000 IN. XC
 LREF = 327.7800 IN. YMRP = .0000 IN. YC
 BREF = 2348.0400 IN. ZMRP = 190.7500 IN. ZC
 SCALE = .0125

PARAMETRIC DATA

BETAC = .000 STAB-C = 5.000
 RJD-C = .000 BETAO = .000
 ELV-O = 10.000 AIL-O = .000
 RUO-O = .000 TACRB = 6.000
 BETA = .000

RN/L = 3.41 GRADIENT INTERVAL = -5.00/ 5.00

MACH = .600

ALPHAC

CO .05518
 .04912
 .04535
 .04428
 .04515
 .04631
 .04797
 .05104
 .05583
 .06097
 .00026

CY .00551
 .00833
 .01173
 .01154
 .01145
 .01313
 .01339
 .01244
 .01285
 .01345
 .00078

CL .31725
 .23415
 .15059
 .06639
 .01986
 .10843
 .17806
 .25614
 .34528
 .40959
 .08255

CSL .00058
 .00030
 .00103
 .00144
 .00133
 .00040
 .00071
 .00129
 .00100
 .00170
 .00005

CLM .04288
 .01591
 .00418
 .01981
 .03525
 .05511
 .07397
 .09430
 .11267
 .11977
 .01880

CLN -.00163
 -.00160
 -.00160
 -.00146
 -.00156
 -.00157
 -.00129
 -.00120
 -.00125
 -.00129
 .00005

CN -.31971
 -.23572
 -.15135
 -.06639
 .02064
 .10998
 .18032
 .25908
 .34884
 .41372
 .08330

CA .03650
 .04052
 .04271
 .04428
 .04480
 .04250
 .03659
 .03305
 .02552
 .01782
 -.00143

CBL .00050
 .00024
 .00100
 .00144
 .00136
 .00046
 .00077
 .00137
 .00111
 .00182
 .00007

CYN -.00166
 -.00161
 -.00162
 -.00146
 -.00154
 -.00155
 -.00126
 -.00111
 -.00116
 -.00182
 .00007

GRADIENT

DATE 13 NOV 75

TABULATED SOURCE DATA - CA23A

PAGE 127

ARC14-080-1 CA23 747/1 01 AT1 (CAR.MATED)

(YESF32) (12 MAY 75)

REFERENCE DATA

SREF = 5500.0000 SQ.FT. XMRP = 1339.9000 IN. XC
 LREF = 327.7800 IN. YMRP = .0000 IN. YC
 BREF = 2348.0400 IN. ZMRP = 190.7500 IN. ZC
 SCALE = .0125

PARAMETRIC DATA

BETAC = .000 STAB-C = 5.000
 RUO-C = .000 BETAO = .000
 ELV-O = .000 AIL-O = .000
 RUO-O = .000 TAONG = 6.000
 BETA = .000

RN/L = 3.49 GRAOIENT INTERVAL = -5.00/ 5.00

MACH = .600	ALPHAC	CD	CY	CL	CSL	CLM	CLN	CN	CA	CBL	CYN
	-3.000	.05866	.00508	-.28263	.00057	-.06870	-.00126	-.28532	.04379	.00050	-.00129
	-2.000	.05434	.00515	-.17154	.00054	-.06829	-.00121	-.17335	.04032	.00050	-.00123
	-1.000	.04966	.00754	-.12181	.00068	-.11184	-.00105	-.12273	.04753	.00056	-.00106
	1.000	.04884	.01040	-.04203	.00093	-.12731	-.00112	-.04203	.04004	.00093	-.00112
	2.000	.04952	.00821	.04139	.00092	-.14338	-.00104	.04225	.04079	.00094	-.00102
	3.000	.05135	.00767	.13200	.00056	-.16567	-.00099	.13371	.04671	.00058	-.00097
	4.000	.05471	.01106	.20839	.00089	-.18274	-.00106	.21097	.04373	.00094	-.00101
	5.000	.05731	.01347	.28399	.00108	-.20044	-.00122	.28729	.03736	.00116	-.00092
	6.000	.06155	.01206	.36659	.00139	-.21498	-.00104	.37055	.02936	.00148	-.00092
		.06846	.01067	.44247	.00199	-.22297	-.00079	.44720	.02183	.00206	-.00092
		.00055	.00095	.07997	.00008	-.01936	.00002	.00001	-.00167	.00010	.00003
	GRAOIENT:										

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DATE 13 NOV 75

TABULATED SOURCE DATA - CA23A

PAGE 129

APC14-080-1 CA23 747/1 01 AT1 (CAR.MATED)

(YES/34) (12 MAY 75)

REFERENCE DATA

SREF = 5500.0000 SQ.FT. XPRP = 1339.9000 IN. XC
 LREF = 327.7800 IN. YPRP = .0000 IN. YC
 BREF = 2348.0400 IN. ZPRP = 190.7500 IN. ZC
 SCALE = .0125

PARAMETRIC DATA

BETAC = .000 STAB-C = -1.000
 RUO-C = .000 BETAO = .000
 ELV-O = .000 AIL-O = .000
 RUO-O = .000 IAOB = .000
 BETA = .000

RN/L = 3.43 GRADIENT INTERVAL = -5.00/ 5.00

MACH = .600

ALPHAC

CD	CY	CL	CSL	CLM	CLN	CN	CA	CBL	CYN
.06045	.00493	-.37341	.00018	.24798	-.00157	-.37606	.04083	.00010	-.00158
.05322	.00611	-.29367	.00029	.22913	-.00145	-.29335	.04294	.00024	-.00146
.04882	.00893	-.20804	.00034	.21207	-.00133	-.20886	.04518	.00032	-.00134
.04630	.01093	-.12459	.00090	.19654	-.00126	-.12459	.04690	.00080	-.00126
.04656	.00761	-.04581	.00034	.18131	-.00105	-.04459	.04735	.00085	-.00104
.04722	.00534	.04597	.00088	.16213	-.00107	.04559	.04551	.00092	-.00104
.04347	.00357	.12809	.00095	.14424	-.00134	.13045	.04170	.00102	-.00129
.04336	.01167	.20128	.00079	.12655	-.00138	.20428	.03579	.00089	-.00132
.05338	.01145	.28090	.00121	.11180	-.00124	.28449	.03869	.00131	-.00113
.05836	.01110	.35740	.00201	.10478	-.00119	.36161	.02128	.00212	-.00097
GRADIENT	.00066	.08240	.00012	-.01704	.00003	.08318	-.00130	.00014	.00004

DATE 13 NOV 75

TABULATED SOURCE DATA - CA23A

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ARC14-080-1 CA23 747/1 01 AT1 (CAR.MATED)

(YE9F35) (12 MAY 75)

REFERENCE DATA

SREF = 5500.0000 SQ.FT. XTRP = 1339.9000 IN. XC
 LREF = 327.7800 IN. YTRP = .0000 IN. YC
 BREF = 2348.0400 IN. ZTRP = 190.7500 IN. ZC
 SCALE = .0125

PARAMETRIC DATA

BETAC = .000 STAB-C = 5.000
 RUO-C = .000 BETAO = .000
 ELV-O = .000 AIL-O = -10.000
 RUO-O = .000 IACOB = 6.000
 BETA = .000

RN/L = 3.44 GRADIENT INTERVAL = -5.00/ 5.00

MACH = .600	ALPHAC	CD	CY	CL	CSL	CLM	CLN	CN	CA	CBL	CYN
-3.000	.05626	.00353	-.30350	.00434	-.02449	-.00350	-.00350	-.30603	.04030	.00415	-.00372
-2.000	.03149	.00709	-.21681	.00359	-.04005	-.00383	-.00383	-.21647	.04369	.00345	-.00395
-1.000	.04762	.01067	-.13817	.00403	-.06101	-.00413	-.00413	-.13898	.04520	.00386	-.00420
.000	.04742	.00979	-.05034	.00412	-.07283	-.00398	-.00398	-.05034	.04742	.00412	-.00398
1.000	.04780	.00938	.02814	.00467	-.08766	-.00409	-.00409	.02897	.04730	.00474	-.00401
2.000	.04957	.00796	.11342	.00495	-.10343	-.00415	-.00415	.11508	.04950	.00509	-.00398
3.000	.05203	.00641	.19363	.00501	-.12042	-.00449	-.00449	.18609	.04183	.00524	-.00422
4.000	.05514	.00698	.27413	.00535	-.13703	-.00463	-.00463	.27731	.03580	.00566	-.00425
5.000	.06017	.00877	.35676	.00524	-.15005	-.00448	-.00448	.36065	.02804	.00561	-.00400
6.000	.06649	.00891	.42972	.00547	-.16066	-.00453	-.00453	.43432	.02121	.00591	-.00393
GRADIENT	.00063	.00017	.00235	.00019	-.01571	-.00012	-.00012	.00316	-.00131	.00027	-.00003

DATE 13 NOV 75

TABULATED SOURCE DATA - CA23A

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ARC14-080-1 CA23 747/1 01 AT: (CAR.MATED)

(YES97) (12 MAY 75)

REFERENCE DATA

SREF = 9500.000 SQ.FT. XGRP = 1339.9000 IN. XC
 LREF = 327.7800 IN. YGRP = .0000 IN. YC
 BREF = 2348.0400 IN. ZGRP = 190.7500 IN. ZC
 SCALE = .0125

PARAMETRIC DATA

BETAC = .000 STAB-C = 5.000
 RUO-C = .000 BETAO = .000
 ELV-O = 5.000 AIL-O = .000
 RUO-O = .000 TAOR8 = 8.000
 BETA = .000

RN/L = 3.52 GRADIENT INTERVAL = -5.00/ 5.00

MACH =

.600

ALPHAC

CO .05485
 .04897
 .04555
 .04450
 .04438
 .04548
 .04756
 .04986
 .05347
 .05960
 .00004

CY .00691
 .00471
 .01011
 .00284
 .00763
 .00904
 .00564
 .01054
 .01267
 .01297
 .00066

CL .33096
 .25139
 .16874
 .08184
 .00943
 .07327
 .15327
 .23417
 .30778
 .38768
 .08038

CSL .00019
 .00070
 .00055
 .00091
 .00045
 .00030
 .00155
 .00223
 .00167
 .00170
 .00020

CLM .04569
 .02579
 .00647
 .01110
 .02634
 .04184
 .05838
 .07536
 .08959
 .10340
 .01675

CLN -.00209
 -.00179
 -.00196
 -.00186
 -.00180
 -.00167
 -.00167
 -.00166
 -.00195
 -.00192
 .00002

CN .33338
 .25294
 .16951
 .08164
 .00766
 .07481
 .16154
 .23708
 .31127
 .39179
 .08112

CA .03743
 .04016
 .04259
 .04450
 .04452
 .04289
 .03916
 .03940
 .02644
 .01875
 -.00121

CBL .00008
 .00064
 .00052
 .00091
 .00048
 .00036
 .00164
 .00236
 .00183
 .00189
 .00023

CYN -.00210
 -.00181
 -.00197
 -.00186
 -.00179
 -.00166
 -.00159
 -.00170
 -.00181
 -.00173
 .00004

GRADIENT

ARC14-080-1 CA23 747/1 01 AT1 (CAR.MATED)

(YESF38) (12 MAY 75)

REFERENCE DATA

SREF = 5500.0000 SQ.FT. XMRP = 1339.9000 IN. XC
 LREF = 327.7800 IN. YMRP = .0000 IN. YC
 BREF = 2348.0400 IN. ZMRP = 190.7500 IN. ZC
 SCALE = .0125

PARAMETRIC DATA

BETAC = .000 STAB-C = 5.000
 RUD-C = 10.000 BETAO = .000
 ELV-O = 5.000 AIL-O = .000
 RUD-O = .000 IACRB = 8.000
 BETA = .000

RN/L = 3.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAC	CD	CY	CL	CSL	CLM	CLN	CN	CA	CBL	CYN
.600	.05497	.03118	.03432	.33733	.00440	.04702	-.01739	-.33975	.03724	.00348	-.01759
-3.000	.04938	.25291	.03432	.25291	.00405	.02605	-.01760	-.25448	.04053	.00343	-.01774
-2.000	.04616	.17064	.03546	.17064	.00444	.00719	-.01741	-.17142	.04317	.00414	-.01748
-1.000	.04458	.09321	.03679	.09321	.00433	-.00787	-.01744	-.09321	.04458	.00433	-.01744
1.000	.04493	.03702	.03702	.00908	.00420	-.02603	-.01731	-.00830	.04508	.00450	-.01723
2.000	.04583	.03803	.03803	.07521	.00358	-.04188	-.01750	.07676	.04318	.00419	-.01737
3.000	.04733	.03802	.03802	.15339	.00304	-.05765	-.01744	.15566	.03924	.00395	-.01726
4.000	.05023	.03851	.03851	.23147	.00331	-.07254	-.01742	.23441	.03396	.00431	-.01715
5.000	.05398	.04081	.04081	.30639	.00329	-.08625	-.01791	.30993	.02707	.00483	-.01756
6.000	.05943	.04218	.04218	.37915	.00307	-.10267	-.01832	.38329	.01947	.00497	-.01780
GRADIENT	.00004	.00096	.00096	.08074	-.00017	-.01654	-.00003	.08149	-.00116	.00014	.00084

DATE 13 NOV 75 TABULATED SOURCE DATA - CA23A
 (YES939) (12 MAY 75)
 ARC14-080-1 CA23 747/1 01 AT1 (CAR.MATED)

REFERENCE DATA

SREF = 5500.0000 SQ.FT. XMRP = 1339.9000 IN. XC
 LREF = 327.7800 IN. YMRP = .0000 IN. YC
 BREF = 2348.0400 IN. ZMRP = 190.7500 IN. ZC
 SCALE = .0125

PARAMETRIC DATA

BETAC = .000 STAB-C = -1.000
 RUD-C = .000 BETAO = .000
 ELV-O = 5.000 AIL-O = .000
 RUD-O = .000 LAOR8 = 8.000
 BETA = .000

RN/L = 3.41 GRADIENT INTERVAL = -5.00/ 5.00

MACH = .600	ALPHAC	CD	CY	CL	CSL	CLM	CLN	CN	CA	CBL	CYN
-3.000	.05632	.00633	-.42815	.36263	-.00209	.43055	.03393	.00022	.00022	.00210	
-2.000	.04818	.00659	-.34175	.34331	-.00197	-.34322	.03622	.00037	.00037	-.00199	
-1.000	.04305	.00687	-.25497	.32404	-.00185	-.25568	.03860	.00044	.00044	-.00186	
.000	.04071	.00705	-.16991	.30540	-.00178	-.16991	.04071	.00070	.00070	-.00178	
1.000	.03930	.00720	-.08510	.28855	-.00162	-.08440	.04078	.00083	.00083	-.00161	
2.000	.03886	.00845	-.00520	.27316	-.00174	-.00384	.03902	.00093	.00093	-.00171	
3.000	.03953	.00935	.07522	.25731	-.00187	.07718	.03554	.00112	.00112	-.00182	
4.000	.04072	.01068	.15529	.24000	-.00174	.15775	.02979	.00143	.00143	-.00165	
5.000	.04257	.01201	.22918	.22402	-.00181	.23202	.02244	.00167	.00167	-.00167	
6.000	.04676	.01317	.30427	.21051	-.00194	.30749	.01470	.00158	.00158	-.00178	
GRADIENT	-.00144	.00071	.08243	-.01717	.00003	.08308	-.00121	.00018	.00018	.00005	

DATE 13 NOV 75

TABULATED SOURCE DATA - CA23A

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ARC14-080-1 CA23 747/1 01 AT1 (CAR.MATED)

(YES'NO) (12 MAY 75)

REFERENCE DATA

SREF = 5500.0000 SQ.FT. XMRP = 1339.9000 IN. XC
 LREF = 327.7800 IN. YMRP = .0000 IN. YC
 BREF = 2348.0400 IN. ZMRP = 190.7500 IN. ZC
 SCALE = .0125

PARAMETRIC DATA

BETAC = .000 STAB-C = -1.000
 RUO-C = .000 BETAO = .000
 ELV-O = 10.000 AIL-O = .000
 RUO-O = .000 IAOB = 8.000
 BETA = .000

RN/L = 3.44 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAC	CD	CY	CL	CSL	CLM	CLN	CN	CA	CBL	CYN
.600	.05711	.00759	.42763	.00060	.39739	.00212	.43003	.03465	.00071	.00209	
-3.000	.04777	.00807	.33785	.00003	.38932	.00196	.33931	.03595	.00010	.00196	
-1.000	.04198	.00951	.25465	.00001	.37979	.00187	.25534	.03753	.00005	.00187	
1.000	.03833	.00749	.18313	.00112	.36473	.00160	.18313	.03833	.00112	.00160	
2.000	.03639	.00921	.10761	.00113	.34985	.00188	.10696	.03826	.00116	.00186	
3.000	.03587	.01184	.02266	.00086	.33490	.00211	.02140	.03664	.00093	.00208	
4.000	.03649	.01050	.06044	.00130	.31654	.00189	.06227	.03327	.00139	.00182	
5.000	.03790	.01100	.14130	.00115	.29303	.00203	.14360	.02795	.00129	.00194	
6.000	.03972	.01327	.22052	.00114	.26747	.00229	.22314	.02035	.00134	.00218	
GRADIENT	.04325	.01231	.29038	.00169	.25016	.00192	.29331	.01266	.00189	.00173	
	-.00188	.00353	.08034	.00021	.01608	.00002	.08097	.00152	.00025	.00001	

DATE 13 NOV 75

TABULATED SOURCE DATA - CA23A

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ARC14-080-1 CA23 747/1 01 AT1 (CAR.MATED)

(YESF41) (12 MAY 75)

REFERENCE DATA

SREF = 5500.0000 SQ.FT. XMRP = 1339.9000 IN. XC
 LREF = 327.7800 IN. YMRP = .0000 IN. YC
 BREF = 2348.0400 IN. ZMRP = 190.7500 IN. ZC
 SCALE = .0125

PARAMETRIC DATA

BETAC = .000 STAB-C = 5.000
 RUD-C = .000 BETAO = .000
 ELV-O = 10.000 AIL-O = .000
 RUD-O = .000 TAORB = 8.000
 BETA = .000

RN/L = 3.41 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAC	CD	CY	CL	CSL	CLM	CLN	CN	CA	CBL	CYN
.600	.05203	.00490	-.35582	.11200	.00058	.00166	.35805	.03333	.00050	.00050	-.00169
-3.000	.04600	.00817	-.26273	.08909	.00007	-.00181	-.26418	.03680	.00001	.00001	-.00181
-2.000	.04250	.00934	-.18409	.06829	.00039	-.00191	-.18480	.03928	.00036	.00036	-.00192
-1.000	.04108	.00970	-.10209	.04798	.00105	-.00180	-.10209	.04108	.00105	.00105	-.00180
1.000	.04118	.01014	-.01599	.02980	.00098	-.00188	-.01527	.04145	.00101	.00101	-.00187
2.000	.04176	.01176	.07250	.01063	.00060	-.00207	.07391	.03920	.00067	.00067	-.00205
3.000	.04293	.01233	.14536	.00891	.00088	-.00188	.14711	.03518	.00098	.00098	-.00184
4.000	.04523	.01122	.21861	-.02553	.00125	-.00180	.22123	.02987	.00137	.00137	-.00171
5.000	.04932	.01288	.30094	-.04404	.00159	-.00222	.30410	.02290	.00178	.00178	-.00207
6.000	.05438	.01508	.36763	-.05525	.00244	-.00227	.37330	.01566	.00266	.00266	-.00200
GRADIENT	-.00020	.00082	.08173	-.01926	.00014	-.00004	.08241	-.00121	.00017	.00017	-.00002

DATE 13 NOV 75

TABLATED SOURCE DATA - CA23A

ARC14-080-1 CA23 747/1 01 AT1 (CAR.MATED)

PAGE 135

(YESF42) (12 MAY 75)

REFERENCE DATA

SREF • 5500.0000 SQ.FT. XMRP • 1339.9000 IN. XC
LREF • 327.7800 IN. YMRP • .0000 IN. YC
BREF • 2348.0400 IN. ZMRP • 190.7500 IN. ZC
SCALE • .0125

PARAMETRIC DATA

BETAC • .000 STAB-C • 5.000
RUD-C • .000 BETAO • .000
ELV-O • 5.000 AIL-O • -10.000
RUD-O • .000 IACRB • 8.000
BETA • .000

RN/L • 3.44 GRADIENT INTERVAL • -5.00/ 5.00

MACH • .600
ALPHAC
-3.000
-2.000
-1.000
1.000
2.000
3.000
4.000
5.000
6.000
GRADIENT

CD	.05393	CY	.00258	CL	.33207	CSL	.00424	CLM	.04351	CLN	.00350	CN	.33444	CA	.03647	CEL	.00405	CYN	.00372
	.04818		.00460		.25117		.00412		.02841		.00395		.25270		.03938		.00398		.00409
	.04493		.00758		.17099		.00426		.01403		.00473		.17175		.04194		.00417		.00480
	.04413		.00916		.08690		.00428		.00120		.00507		.08690		.04413		.00428		.00507
	.04226		.00996		.00464		.00508		.02091		.00565		.00387		.04433		.00518		.00557
	.04533		.00928		.07827		.00554		.03714		.00601		.07980		.04257		.00575		.00582
	.04722		.00815		.15865		.00507		.05336		.00629		.16091		.03885		.00540		.00601
	.05036		.00800		.23870		.00488		.07305		.00640		.24163		.03359		.00532		.00605
	.05476		.00908		.31515		.00507		.05875		.00634		.31873		.02709		.00561		.00587
	.06044		.00970		.38803		.00538		.09987		.00629		.39223		.01955		.00601		.00569
	.00026		.00062		.08138		.00014		.01673		.00038		.08213		.00104		.00024		.00029

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR

DATE 3 NOV 75

TABULATED SOURCE DATA - CA23A

ABC 14-080-1 CA23 747/1 01 ATI (CAR.MATED)

(YES43) (12 MAY 75)

PARAMETRIC DATA

REFERENCE DATA

SREF	=	5500.0000	SQ.FT.	XMRP	=	1339.9000	IN.	XC	BETAC	=	.000	STAB-C	=	5.000
LREF	=	327.7800	IN.	YMRP	=	.0000	IN.	YC	RUD-C	=	.000	BETAO	=	.000
BREF	=	2348.0400	IN.	ZMRP	=	190.7500	IN.	ZC	ELV-O	=	.000	AIR-O	=	.000
SCALE	=	.0125							RUD-O	=	.000	IAOR8	=	8.000
									RFTA	=	.000			

BN/1 = 3.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	-	.600	ALPHAC	CD	CY	CL	CSL	CLM	CLN	CN	CA	CCL	CYN
-3.000		.05671	.00502	-.33591	.00080	-.01521	-.00193	-.33842	.03905	.00070	-.00197		
-2.000		.05027	.00554	-.24622	.00115	-.04264	-.00181	-.24782	.04165	.00108	-.00185		
-1.000		.04752	.00850	-.14810	.00066	-.05139	-.00194	-.14891	.04993	.00063	-.00195		
.000		.04634	.01033	-.07650	.00075	-.06578	-.00185	-.07650	.04634	.00075	-.00185		
1.000		.04722	.00850	.01360	.00121	.08140	-.00155	.01442	.04697	.00123	-.00152		
2.000		.04829	.00783	.09910	.00078	.10139	-.00158	.10073	.04481	.00084	-.00156		
3.000		.05009	.01003	.17288	.00066	-.11701	-.00174	.17526	.04098	.00075	-.00171		
4.000		.05283	.01201	.24909	.00138	.13018	-.00179	.25217	.035...	.00150	-.00169		
5.000		.05688	.01144	.32509	.00178	.14486	-.00168	.32881	.0283	.00192	-.00151		
6.000		.06371	.01075	.40270	.00198	.15672	-.00156	.40716	.02126	.00214	-.00134		
GRADIENT		.00026	.00076	.08246	.00008	-.01580	.00003	.08324	-.00119	.00011	.00005		

DATE 13 NOV 75

TABULATED SOURCE DATA - CA23A

PAGE 137
(YESF44) (12 MAY 75)

ARC14-080-1 CA23 747/1 01 AT1 (CAR.MATED)

REFERENCE DATA

SREF = 5500.0000 SQ.FT. XMRP = 1339.9000 IN. XC
LREF = 327.7800 IN. YMRP = .0000 IN. YC
BREF = 2348.0400 IN. ZMRP = 190.7500 IN. ZC
SCALE = .0125

PARAMETRIC DATA

BETAC = .000 STAB-C = -1.000
RUD-C = .000 BETAD = .000
ELV-O = .000 AIL-O = .000
RUD-O = .000 TAOR8 = 8.000
BETA = .000

RN/L = 3.43 GRADIENT INTERVAL = -5.00/ 5.00

MACH = .600

ALPHA/C
-3.000
-2.000
-1.000
.000
1.000
2.000
3.000
4.000
5.000
6.000
GRADIENT

CD
.05837
.05099
.04671
.04411
.04300
.04297
.04377
.04568
.04890
.05244
-.00101

CY
.00485
.00738
.00725
.00829
.00743
.00890
.00854
.01043
.01131
.01143
.00060

CL
-.40932
-.31260
-.22803
-.14256
-.07862
.01197
.09335
.16908
.24910
.31767
.08131

CLM
.30168
.28200
.26208
.24307
.22847
.21386
.20035
.18794
.17379
.16148
-.01580

CLN
-.00228
-.00240
-.00226
-.00202
-.00177
-.00179
-.00185
-.00193
-.00203
-.00197
.00006

CN
-.41181
-.31419
-.22801
-.14256
-.07862
.01197
.09335
.16908
.24910
.31767
.08131

CA
.03687
.04085
.04273
.04411
.04423
.04253
.03682
.03372
.02700
.01895
-.00113

CBL
.00034
-.00006
.00113
.00047
.00094
.00176
.00105
.00108
.00145
.00163
.00156
.00183
.00017

CYN
-.00230
-.00240
-.00228
-.00202
-.00176
-.00105
-.00108
-.00178
-.00190
-.00179
-.00008

DATE 13 NOV 75

TABULATED SOURCE DATA - CA23A

PAGE 138

ARC14-080-1 CA23 747/1 01 AT1 (CAR.MATED)

(YESF45) (12 MAY 75)

REFERENCE DATA

SREF = 9'-00.0000 SQ.F.T. XMRP = 1339.9000 IN. XC
 LREF = 327.7800 IN. YMRP = 0000 IN. YC
 BREF = 2348.0400 IN. ZMRP = 190.7500 IN. ZC
 SCALE = .0125

PARAMETRIC DATA

BETAC = .000 STAB-C = -1.000
 RUO-C = .000 BETAO = .000
 ELV-O = .000 AIL-O = .000
 RUO-O = .000 IAOOB = 4.000
 BETA = .000

RN/L = 3.43 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAC	CD	CY	CL	CSL	CLM	CLN	CN	CA	CBL	CYN
.600	.06245	.00653	-.35137	.00036	.19715	-.00143	-.35416	.04398	.00028	.00028	-.00145
3.000	.05556	.00786	-.26807	-.00020	.17761	-.00109	-.26985	.04617	-.00024	-.00024	-.00108
4.000	.05170	.00473	-.17929	-.00055	.15818	-.00048	-.18017	.04856	-.00056	-.00056	-.00047
5.000	.04987	.00996	-.09539	.00089	.13897	-.00078	-.09539	.04987	.00089	.00089	-.00078
6.000	.05033	.00998	-.01785	.00118	.12717	-.00079	-.01698	.05033	.00120	.00120	-.00076
7.000	.05028	.00788	.07005	.00061	.11133	-.00061	.07176	.04781	.00063	.00063	-.00059
8.000	.05164	.01052	.15425	.00103	.09410	-.00071	.15674	.04349	.00107	.00107	-.00056
9.000	.05396	.01122	.23293	.00135	.07853	-.00066	.23613	.03758	.00140	.00140	-.00057
10.000	.05750	.01038	.31395	.00109	.06266	-.00052	.31777	.02982	.00113	.00113	-.00042
11.000	.06281	.01234	.39360	.00094	.04234	-.00067	.39801	.02133	.00101	.00101	-.00057
12.000	.00041	.00058	.08328	.00017	-.01665	.00008	.08411	-.00157	.00019	.00019	.00009

GRADIENT

DATE 13 NOV 75

TABULATED SOURCE DATA - CA23A

ARC14-080-1 CA23 747/1 01 ATI (CAR.MATED)

PAGE 139

(YESF48) (12 MAY 75)

REFERENCE DATA

SREF = 5500.0000 SQ. FT. XTRP = 1339.9000 IN. XC
 LREF = 327.7800 IN. YTRP = .0000 IN. YC
 BREF = 2348.0400 IN. ZTRP = 190.7500 IN. ZC
 SCALE = .0125

RN/L = 3.49 GRADIENT INTERVAL = -5.00/ 5.00

PARAMETRIC DATA

BETAC = .000 STAB-C = 5.000
 RUD-C = .000 STAB = .000
 ELV-O = .000 AIL-O = .000
 RUD-O = .000 IACB = .000
 BETA = .000

MACH	ALPHAC	CO	CY	CL	CSL	CLM	CLN	CN	CA	CBL	CYN
.600	.06226	.00476	-.19654	.00026	-.06629	-.00084	-.19953	-.19953	.05188	.00021	-.00085
-3.000	.06806	.00412	.08036	-.00021	.07181	-.00089	.07793	.07793	.07082	-.00024	-.00086
-1.000	.05128	.00779	-.10349	.00117	-.17544	-.00042	-.10437	-.10437	.04947	.00116	-.00044
.000	.05038	.00975	-.01938	.00084	-.19464	-.00044	-.01938	-.01938	.05038	.00084	-.00044
1.000	.05236	.01174	.06637	.00153	-.20373	-.00033	.06728	.06728	.05119	.00153	-.00030
2.000	.05376	.00906	.14652	.00116	-.22407	-.00007	.14841	.14841	.04862	.00116	-.00003
3.000	.05717	.00808	.23728	.00101	-.23632	-.00005	.23995	.23995	.04467	.00102	-.00000
4.000	.06188	.01138	.31621	.00128	-.25101	-.00009	.31975	.31975	.03968	.00128	-.00000
5.000	.06679	.01190	.39283	.00189	-.26451	-.00007	.39715	.39715	.03229	.00189	-.00009
6.000	.07276	.01075	.46845	.00230	-.27859	-.00008	.47349	.47349	.02340	.00230	-.00016
GRADIENT	.00025	.00084	.06521	.00018	-.03188	.00011	.06614	.06614	-.00305	.00019	.00013

DATE 13 NOV 75

TABULATED SOURCE DATA - CA23A

PAGE 140

ARC14-080-1 CA23 747/1 01 AT1 (CAR.MATED)

(YES'47) (12 MAY 75)

REFERENCE DATA

SREF = 5500.0000 SQ.FT. XMRP = 1339.9000 IN. XC
 LREF = 327.7800 IN. YMRP = .0000 IN. YC
 BREF = 2348.0400 IN. ZMRP = 190.7500 IN. ZC
 SCALE = .0125

PARAMETRIC DATA

BETAC = .000 STAB-C = 5.000
 RUO-C = .000 BETAO = .000
 ELV-O = 5.000 AIL-O = .000
 RUO-O = .000 IAOB = 4.000
 BETA = .000

RN/L = 3.52 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAC	CD	CY	CL	CSL	CLM	CLN	CN	CA	CBL	CYN
.600	.05654	.00616	-.29154	-.00009	-.07247	-.00088	-.29421	.04320	-.00013	-.00088	
-3.000	.05238	.00905	-.20800	.00062	-.09293	-.00082	-.20970	.04509	.00059	-.00084	
-1.000	.04943	.00905	-.10862	.00132	-.11848	-.00082	-.10946	.04753	.00130	-.00085	
.000	.04975	.01043	-.02252	.00128	-.13602	-.00067	-.02252	.04975	.00128	-.00067	
1.000	.05075	.01257	.05851	.00199	-.15672	-.00064	.05939	.04972	.00200	-.00060	
2.000	.05304	.01128	.14344	.00129	-.17519	-.00042	.14521	.04801	.00130	-.00039	
3.000	.05549	.01112	.22454	.00135	-.19237	-.00022	.22714	.04367	.00136	-.00015	
4.000	.05958	.01038	.30028	.00121	-.20759	-.00010	.30371	.03849	.00122	-.00002	
5.000	.06474	.01035	.38199	.00133	-.22472	-.00015	.38617	.03121	.00134	-.00004	
6.000	.07102	.01179	.46236	.00230	-.24076	-.00025	.46725	.02230	.00232	-.00001	
GRADIENT	.00103	.00043	.08419	.00013	-.01900	.00011	.08504	-.00129	.00013	.00013	

REPRODUCIBILITY OF THE
 ORIGINAL PAGE IS POOR

DATE 13 NOV 75

TABULATED SOURCE DATA - CA23A

PAGE 141

ARC14-080-1 CA23 747/1 01 AT1 (CAR.MATED)

(YESF48) (12 MAY 75)

REFERENCE DATA

SREF = 5520.0000 SQ.FT. XMRP = 1339.9000 IN. XC
 LREF = 327.7800 IN. YMRP = .0000 IN. YC
 BREF = 2348.0400 IN. ZMRP = 190.7500 IN. ZC
 SCALE = .0125

PARAMETRIC DATA

BETAC = .000 STAB-C = 5.000
 RUO-C = 10.000 BETAO = .000
 ELV-O = 5.000 AIL-O = .000
 RUO-O = .000 TAOMB = 4.000
 BETA = .000

RN/L = 3.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAC	CD	CY	CL	CSL	CLM	CLN	CN	CA	CBL	CYN
.600	.05971	.02961	-.27923	.00386	-.06719	-.01599	-.28197	.04502	.00302	-.01617	
-3.000	.05381	.03163	-.19321	.00374	-.09078	-.01597	-.19497	.04704	.00318	-.01609	
-1.000	.05153	.03784	-.11117	.00380	-.11025	-.01606	-.11205	.04958	.00352	-.01613	
.000	.05061	.03706	-.03442	.00306	-.13314	-.01582	-.03442	.05061	.00306	-.01582	
1.000	.05162	.03895	.05457	.00304	-.15231	-.01601	.05446	.05066	.00331	-.01596	
2.000	.05319	.03904	.13063	.00366	-.17090	-.01614	.13241	.04860	.00422	-.01600	
3.000	.05767	.03729	.22863	.00323	-.18599	-.01604	.23134	.04563	.00406	-.01585	
4.000	.06188	.03802	.30860	.00290	-.20274	-.01611	.31217	.04020	.00402	-.01586	
5.000	.06557	.03655	.37635	.00263	-.22047	-.01605	.38064	.03252	.00402	-.01576	
6.000	.07284	.03559	.46100	.00210	-.23692	-.01590	.46608	.02425	.00375	-.01560	
GRADIENT	.00104	.00080	.08287	-.00013	-.01897	-.00002	.08376	-.00134	.00015	.00004	

DATE 13 NOV 75

TABULATED SOURCE DATA - CA23A

ARC14-080-1 CA23 747/1 01 AT1 (CAR.MATED)

(YES/NO) (12 MAY 75)

REFERENCE DATA

SREF = 9500.0000 SQ.FT. XPRP = 1339.9000 IN. XC
 LREF = 327.7800 IN. YPRP = .0000 IN. YC
 BREF = 2348.0400 IN. ZPRP = 190.7500 IN. ZC
 SCALE = .0125

BETAC =
 RUO-C =
 ELV-O =
 RUO-O =
 BETA =

.000 STAB-C = -1.000
 .000 BETAO = .000
 5.000 AIL-O = .000
 .000 LAOR8 = 4.000
 .000

PARAMETRIC DATA

PN/L = 3.41 GRADIENT INTERVAL = -5.00/ 5.00

MACH =	600	ALPHAC	CD	CY	CL	CSL	CLM	CLN	CN	CA	CBL	CYN
	-3.000	.06012	.00747	-.36122	.25264	.00128	-.00128	-.36387	.04113	.00121	-.00135	
	-2.000	.05331	.00876	-.28347	.23456	-.00123	-.00123	-.28516	.04338	.00045	-.00125	
	-1.000	.04960	.00817	-.20242	.21897	-.00087	-.00087	-.20325	.04606	.00049	-.00086	
	.000	.04768	.00774	-.10982	.20087	-.00082	-.00082	-.10982	.04768	.00055	-.00062	
	1.000	.04781	.01014	-.02358	.18304	-.00104	-.00104	-.02274	.04822	.00067	-.00103	
	2.000	.04854	.01030	.05641	.16864	-.00085	-.00085	.05807	.04654	.00117	-.00081	
	3.000	.04938	.01350	.13929	.15081	-.00084	-.00084	.14168	.04202	.00087	-.00079	
	4.000	.05174	.01599	.22467	.13252	-.00109	-.00109	.22772	.03574	.00064	-.00105	
	5.000	.05436	.01287	.29846	.11362	-.00107	-.00107	.30207	.02814	.00165	-.00093	
	6.000	.05881	.01206	.37044	.09325	-.00106	-.00106	.37455	.01976	.00217	-.00084	
	GRADIENT	-.00047	.00094	.08355	-.01718	.00002	.00002	.08434	-.00140	.00009	.00004	

DATE 13 NOV 75

TABULATED SOURCE DATA - CA23A

PAGE 143

ARC14-080-1 CA23 747/1 01 AT1 (CAR.MATED)

(YESF50) (12 MAY 75)

REFERENCE DATA

SREF = 5500.0000 SQ.FT. XMRP = 1339.9000 IN. XC
 LREF = 327.7803 IN. YMRP = .0000 "1. YC
 BRREF = 2349.0400 IN. ZMRP = 190.7500 IN. ZC
 SCALE = .0125

PARAMETRIC DATA

BETAC = .000 STAB-C = -1.000
 RUO-C = .000 BETAO = .000
 ELV-O = 10.000 AIL-O = .000
 RUO-O = .000 LAOR8 = 4.000
 BETA = .000

RM/L = 3.44 GRADIENT INTERVAL = -5.00/ 5.00

MACH = .600

ALPHAC
 -3.000
 -2.000
 -1.000
 .000
 1.000
 2.000
 3.000
 4.000
 5.000
 6.000
 GRADIENT

CD	CY	CL	CSL	CLM	CLN	CN	CA	CSL	CYN
.05827	.01017	-.37047	-.00035	.30771	-.00183	-.37301	.03880	-.00044	-.00181
.05136	.00689	-.28514	.00015	.28919	-.00165	-.28676	.04138	.00010	-.00166
.04701	.01129	-.20163	.00025	.26121	-.00158	-.20242	.04349	.00022	-.00159
.04563	.01102	-.12153	-.00021	.24768	-.00131	-.12153	.04563	-.00021	-.00131
.04454	.01058	-.03208	.00066	.22928	-.00125	-.03130	.04509	.00068	-.00123
.04495	.00970	.05261	.00125	.21188	-.00110	.05415	.04309	.00129	-.00106
.04552	.01359	.13322	.00075	.19954	-.00149	.13542	.03849	.00083	-.00145
.04744	.01679	.21818	.00103	.18292	-.00175	.22096	.03211	.00115	-.00168
.05085	.01437	.29209	.00168	.16564	-.00136	.29541	.02520	.00180	-.00121
.05462	.01637	.36181	.00143	.14934	-.00139	.36554	.01650	.00156	-.00124
-.00075	.00087	.08340	.00022	-.01744	.00003	.08414	-.00158	.00025	.00005

DATE 13 NOV 75

TABULATED SOURCE DATA - CA23A

PAGE 144

ARC14-080-1 CA23 747/1 01 AT1 (CAR.MATED)

(YESFS1) (12 MAY 75)

REFERENCE DATA

SPREF = 5500.0000 SQ.FT. XTRP = 1339.9000 IN. XC
 LREF = 327.7800 IN. YTRP = .0000 IN. YC
 BRPF = 2348.0400 IN. ZTRP = 190.7500 IN. ZC
 SCALE = .0125

PARAMETRIC DATA

BETAC = .000 STAB-C = 5.000
 RUO-C = .000 BETAO = .000
 ELV-O = 10.000 ALI-O = .000
 RUO-O = .000 IAOB = 4.000
 BETA = .000

RN/L = 3.41 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAC	CD	CY	CL	CSL	CLM	CLN	CN	CA	CBL	CYN
.600	.05629	.00800	-.28229	.00095	-.02470	-.00142	-.28485	.04144	.00087	.00147	
-3.000	.05154	.01063	-.20932	.00135	-.04530	-.00133	-.21099	.04420	.00130	-.00138	
-2.000	.04835	.01082	-.11609	.00002	-.06833	-.00113	-.11691	.04632	.00000	-.00113	
-1.000	.04817	.01379	-.03029	.00108	-.08786	-.00118	-.03029	.04817	.00108	-.00118	
1.000	.04981	.01292	.04772	.00121	-.19104	-.00089	.04859	.04897	.00122	-.00087	
2.000	.05011	.00978	.13122	.00057	-.12025	-.00087	.13288	.04550	.00060	-.00085	
3.000	.05309	.01199	.21774	.00153	-.13832	-.00102	.22022	.04162	.00158	-.00094	
4.000	.05749	.01571	.29728	.00145	-.15062	-.00110	.30057	.03661	.00152	-.00099	
5.000	.06088	.01546	.37706	.00111	-.17094	-.00111	.38093	.02779	.00120	-.00101	
6.000	.06749	.01350	.46143	.00159	-.19526	-.00106	.46596	.01888	.00169	-.00089	
GRADIENT	.00079	.00072	.08311	.00006	-.01789	.00004	.08392	-.00149	.00008	.00006	

REPRODUCIBILITY
 ORIGINAL PAGE REPORT

DATE 13 NOV 75

TABULATED SOURCE DATA - CA23A

PAGE 145

ARC14-080-1 CA23 747/1 01 AT1 (CAR.MATED)

(YESF52) (12 MAY 75)

REFERENCE DATA

SREF = 5500.0000 SQ.FT. XMRP = 1339.9000 IN. XC
 LREF = 327.7800 IN. YMRP = .0000 IN. YC
 BREF = 2348.0400 IN. ZMRP = 190.7500 IN. ZC
 SCALE = .0125

PARAMETRIC DATA

BETAC = .000 STAB-C = 5.000
 RUO-C = .000 BETAO = .000
 ELV-O = 5.000 AIL-O = -10.000
 RUO-O = .000 IAOB8 = 4.000
 BETA = .000

RN/L = 3.44 GRADIENT INTERVAL = -5.00/ 5.00

MACH =

.600

ALPHAC

-3.000

-2.000

-1.000

.000

1.000

2.000

3.000

4.000

5.000

6.000

GRADIENT

CD	CY	CL	CSL	CLM	CLN	CN	CA	CBL	CYN
.05855	.00849	-.26981	.00303	-.08842	-.00438	-.27250	.04435	.00280	-.00453
.05289	.00763	-.18329	.00404	-.10926	-.00375	-.18503	.04646	.00390	-.00389
.05071	.00667	-.09458	.00474	-.12851	-.00315	-.09545	.04905	.00468	-.00323
.05011	.00686	-.01005	.00518	-.14284	-.00281	-.01005	.05011	.00518	-.00281
.05085	.00686	.07410	.00489	-.16555	-.00262	.07498	.04955	.00493	-.00253
.05250	.00725	.15289	.00438	-.17858	-.00261	.15463	.04713	.00447	-.00246
.05538	.00793	.23027	.00413	-.18801	-.00266	.23285	.04325	.00427	-.00244
.05950	.00797	.30555	.00414	-.19621	-.00276	.30895	.03804	.00432	-.00246
.06433	.00677	.37926	.00452	-.20697	-.00273	.38342	.03103	.00474	-.00232
.07060	.00526	.45655	.00493	-.22082	-.00235	.46143	.02249	.00515	-.00182
.00091	-.00005	.08126	.00007	-.01473	.00018	.08212	-.00155	.00012	.00025

DATE 13 NOV 75

TABULATED SOURCE DATA - CA23A

PAGE 146

ARC14-080-1 CA23 7471(-51-512101 AT1(CAR.MATED)

(YESF53) (12 MAY 75)

REFERENCE DATA

SREF = 5500.0000 SQ.FT. XMRP = 1339.9000 IN. XC
 LREF = 327.7800 IN. YMRP = .0000 IN. YC
 BRFF = 2348.0400 IN. ZMRP = 190.7500 IN. ZC
 SCALE = .0125

PARAMETRIC DATA

BETAC = .000 STAB-C = 5.000
 RUO-C = .000 BE1AO = .000
 ELV-O = 5.000 AIL-O = .000
 RUO-O = .000 TAOOR = 6.000
 BETA = .000

RN/L = 3.45 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAC	CD	CY	CL	CSL	CLM	CLN	CN	CA	CBL	CYN
.600	.04067	.00859	-.16513	-.00014	-.05960	-.00099	-.16703	.03197	-.00019	-.00058	
-3.000	.03714	.00915	-.07367	.00068	-.08012	-.00072	-.07492	.03455	.00065	-.00075	
-1.000	.03564	.01221	.00315	-.00001	-.09453	-.00094	.00253	.03569	-.00003	-.00094	
.000	.03649	.01078	.08310	.00073	-.10825	-.00078	.08310	.03649	.00073	-.00078	
1.000	.03742	.01094	.16753	.00068	-.12428	-.00036	.16815	.03449	.00068	-.00035	
2.000	.04021	.01139	.25077	.00116	-.14540	-.00045	.25202	.03143	.00117	-.00041	
3.000	.04456	.01272	.33088	.00162	-.17084	-.00092	.33275	.02718	.00167	-.00083	
4.000	.04882	.01469	.41054	.00152	-.19405	-.00107	.41294	.02006	.00159	-.00096	
5.000	.05422	.01341	.49238	.00152	-.20955	-.00095	.49523	.01110	.00159	-.00081	
6.000	.06149	.01249	.56351	.00104	-.21593	-.00070	.56685	.00225	.00111	-.00059	
GRADIENT	.00185	.00063	.08176	.00021	-.01886	-.00001	.08237	-.03248	.00023	.00001	

DATE 13 NOV 75

TABULATED SOURCE DATA - CA23A

PAGE 147

ARC14-080-1 CA23 747/1(-S1-S12)01 AT1(CAR.MATED)

(YES54) (12 MAY 75)

REFERENCE DATA

SREF = 5500.0000 SQ.FT. XMRP = 1339.9000 IN. XC
 LRFP = 327.7800 IN. YMRP = .0000 IN. YC
 BRFP = 2348.0400 IN. ZMRP = 190.7500 IN. ZC
 SCALE = .0125

PARAMETRIC DATA

BETAC = .000 STAB-C = 5.000
 RUO-C = .000 BETAO = .000
 ELV-O = 5.000 AIL-O = .000
 RUO-O = .000 IACRB = 8.000
 BETA = .000

RN/L = 3.45 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CO	CY	CL	CSL	CLM	CLN	CN	CA	CSL	CYN
.600	.03809	.00796	-.20764	.01751	-.00140	-.20335	.02717	-.00035	-.00138		
-3.000	.03411	.00997	-.12240	-.00693	-.00121	-.12352	.02981	.00096	-.00124		
-2.000	.03278	.00999	-.03520	-.02699	-.00126	-.03577	.03216	.00098	-.00127		
-1.000	.03278	.01093	.04309	-.04458	-.00128	.04309	.03278	.00071	-.00128		
1.000	.03375	.01094	.12625	-.06421	-.00113	.12682	.03155	.00096	-.00111		
2.000	.03529	.00956	.21086	-.08160	-.00109	.21196	.02791	.00109	-.00105		
3.000	.03805	.01127	.29281	-.09566	-.00130	.29440	.02268	.00087	-.00125		
4.000	.04211	.01368	.36993	-.11108	-.00145	.37196	.01621	.00130	-.00137		
5.000	.04586	.01328	.43869	-.12749	-.00145	.44102	.00745	.00202	-.00128		
6.000	.05399	.01465	.51072	-.14242	-.00147	.51347	-.00069	.00188	-.00128		
GRADIENT	.00114	.00056	.08143	-.01778	-.00001	.08195	-.00239	.00018	.00000		

REPRODUCED FROM
 ORIGINAL PAGE 147

DATE 13 NOV 75

TABULATED SOURCE DATA - CA23A

PAGE 148

(YESF59) (12 MAY 75)

ARC14-080-1 CA23 747/1 03 ATI (CAR.MATED)

REFERENCE DATA

SREF = 5500.0000 SQ.FT. XMRP = 1339.9000 IN. XC
 LREF = 327.7800 IN. YMRP = .0000 IN. YC
 BREF = 2348.0400 IN. ZMRP = 190.7500 IN. ZC
 SCALE = .0125

PARAMETRIC DATA

BETAC = .000 STAB-C = -1.000
 RUO-C = .000 BETAO = .000
 ELV-O = .000 AIL-O = .000
 RUO-O = .000 IAOB8 = .000
 BETA = .000

RM/L = 3.41 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAC	CD	CY	CL	CSL	CLM	CLN	CN	CA	CEL	CYN
.600	.06142	.00172	-.35621	.00104	.23225	-.00148	-.35893	.00096	.04270	.00096	-.00153
-3.000	.05504	.00387	-.27269	.00070	.21336	-.00153	-.27444	.00065	.04549	.00065	-.00155
-1.000	.05124	.00602	-.18866	.00032	.19415	-.00159	-.18953	.00029	.04794	.00029	-.00160
.000	.04968	.00699	-.10349	.00013	.17638	-.00157	-.10349	.00013	.04968	.00013	-.00157
1.000	.04995	.00596	-.01697	.00033	.16138	-.00142	-.01609	.00035	.05024	.00035	-.00141
2.000	.05109	.00449	.06808	.00070	.14710	-.00130	.06983	.00075	.04868	.00075	-.00127
3.000	.05180	.00498	.14797	.00089	.13031	-.00143	.15048	.00097	.04398	.00097	-.00138
4.000	.05243	.00715	.22398	.00092	.11144	-.00172	.22709	.00104	.03668	.00104	-.00165
5.000	.05486	.00875	.30104	.00110	.09347	-.00188	.30468	.00126	.02842	.00126	-.00177
6.000	.06035	.00883	.38119	.00156	.07755	-.00182	.38541	.00174	.02017	.00174	-.00165
GRADIENT	-.00053	.00056	.08273	.00004	-.01696	-.00003	.08354	.00007	-.00154	.00007	-.00001

DATE 13 NOV 75

TABULATED SOURCE DATA - CA23A

PAGE 149

ARC14-080-1 CA23 747/1 03 AT1 (CAR.MATED)

(YESF80) (12 MAY 75)

REFERENCE DATA

SREF = 5500.0000 SQ.FT. XMRP = 1339.9000 IN. XC
 LREF = 327.7800 IN. YMRP = .0000 IN. YC
 BREF = 2348.0400 IN. ZMRP = 190.7500 IN. ZC
 SCALE = .0125

PARAMETRIC DATA

BETAC = .000 STAB-C = -1.000
 RUO-C = .000 BETAO = .000
 ELV-O = .000 AIL-O = .000
 RUO-O = .000 IAOB = 6.000
 BETA = .000

RN/L = 3.41 GRADIENT INTERVAL = -5.00/ 5.00

MACH = .600
 ALPHAC
 -3.000
 -2.000
 -1.000
 .000
 1.000
 2.000
 3.000
 4.000
 5.000
 6.000
 GRADIENT

CO	CY	CL	CSL	CLM	CLN	CN	CA	CRL	CYN
.07142	.00590	-.35064	-.00052	.27582	-.00139	-.35390	.05297	-.00059	-.00136
.05886	.00687	-.27119	-.00052	.25742	-.00159	-.27308	.04936	-.00058	-.00157
.05118	.00791	-.19309	-.00034	.24064	-.00167	-.19395	.04780	-.00037	-.00166
.04728	.00876	-.11556	-.00001	.22507	-.00166	-.11556	.04728	-.00001	-.00166
.04611	.00920	-.03784	.00041	.21024	-.00163	-.03703	.04676	.00044	-.00162
.04660	.00952	.04026	.00081	.19502	-.00165	.04186	.04517	.00066	-.00162
.04768	.01019	.11874	.00100	.17807	-.00182	.12107	.04140	.00110	-.00176
.04927	.01114	.19766	.00104	.16029	-.00206	.20061	.03537	.00118	-.00198
.05217	.01183	.27704	.00114	.14449	-.00217	.28053	.02782	.00133	-.00206
.05706	.01202	.35680	.00142	.13167	-.00209	.36081	.01945	.00163	-.00193
-.00189	.00070	.07828	.00025	-.01620	-.00008	.07910	-.00262	.00028	-.00007

DATE 13 NOV 75

TABULATED SOURCE DATA - CA23A

PAGE 150

ARC14-080-1 CA23 7471(-S1-S12)01 AT1(CAR.MATED)

(YESF63) (12 MAY 75)

REFERENCE DATA

SREF = 5500.0000 SQ.FT. XMRP = 1339.9000 IN. XC
 LREF = 327.7800 IN. YMRP = .0000 IN. YC
 BREF = 2348.0400 IN. ZMRP = 190.7500 IN. ZC
 SCALE = .0125

PARAMETRIC DATA

BETAC = -5.000 STAB-C = 5.000
 RUD-C = .000 BETAO = -5.000
 ELV-O = 5.000 AIL-O = .000
 RUD-O = .000 TAOR8 = 0.000
 BETA = -5.000

RN/L = 3.45 GRADIENT INTERVAL = -5.00/ 5.00

MACH = .600

ALPHAC

CD .03819
 .03485
 .03242
 .03241
 .03347
 .03433
 .03696
 .04137
 .04619
 .05396
 .00104

CY .09931
 .10616
 .11048
 .11200
 .11404
 .11664
 .11963
 .12169
 .12300
 .12652
 .00274

CL -.19136
 -.10913
 -.02391
 .05785
 .13595
 .21491
 .29537
 .36979
 .43733
 .50780
 .07912

COL .00502
 .00601
 .00793
 .00822
 .00909
 .01016
 .01089
 .01247
 .01346
 .01367
 .00102

CLM -.02371
 -.04573
 -.06564
 -.08120
 -.09593
 -.11245
 -.12864
 -.14415
 -.15783
 -.16619
 -.01648

CLN -.00560
 -.00598
 -.00602
 -.00612
 -.00645
 -.00700
 -.00747
 -.00771
 -.00789
 -.00803
 -.00030

CN -.19309
 -.11028
 -.02447
 .05785
 .13651
 .21598
 .29589
 .37178
 .43969
 .51065
 .07964

CA .02812
 .03102
 .03200
 .03241
 .03109
 .02681
 .02145
 .01548
 .00790
 .00058
 -.00257

CBL .00472
 .00580
 .00782
 .00822
 .00920
 .01040
 .01126
 .01298
 .01410
 .01444
 .00114

CYN -.00576
 -.00618
 -.00616
 -.00612
 -.00629
 -.00664
 -.00689
 -.00682
 -.00669
 -.00655
 -.00012

GRADIENT

DATE 13 NOV 75

TABULATED SOURCE DATA - CA23A

PAGE 151

ARC14-080-1 CA23 747/1(-SI-SI2)01 AT1(CAR.MATED)

(YES/64) (12 MAY 75)

REFERENCE DATA

SREF = 5500.0000 SQ.FT. XMRP = 1339.9000 IN. XC
LREF = 327.7800 IN. YMRP = .0000 IN. YC
BREF = 2348.0400 IN. ZMRP = 190.7500 IN. ZC
SCALE = .0125

PARAMETRIC DATA

BETAC = -5.000 STAB-C = 5.000
RUO-C = .000 BETAO = -5.000
ELV-O = 5.000 AIL-O = .000
RUO-O = .000 LAOR8 = 6.000
BETA = -5.000

RN/L = 3.45 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHAC	CD	CY	CL	CSL	CLM	CLN	CN	CA	CBL	CYN
.600	.03937	.10146	-.14837	.00444	-.08376	-.00610	-.15023	.03155	.00412	.00633	
-3.000	.03595	.10274	-.08313	.00587	-.10260	-.00615	-.08433	.03303	.00565	-.00635	
-1.000	.03479	.10698	.00408	.00629	-.12076	-.00627	.00348	.03486	.00618	-.00638	
.000	.03477	.10962	.09122	.00715	-.13959	-.00677	.09122	.03477	.00715	-.00677	
1.000	.03542	.10704	.16710	.00868	-.15301	-.00683	.16769	.03250	.00880	-.00668	
2.000	.03800	.10935	.25249	.00901	-.16952	-.00709	.25366	.02916	.00925	-.00677	
3.000	.04215	.11333	.33581	.01031	-.18744	-.00760	.33756	.02452	.01069	-.00705	
4.000	.04614	.11463	.41116	.01208	-.20277	-.00793	.41338	.01735	.01261	-.00707	
5.000	.05174	.12253	.49084	.01216	-.21699	-.00867	.49348	.00877	.01286	-.00757	
6.000	.06005	.12623	.55972	.01356	-.22458	-.00943	.56293	.00121	.01447	-.00796	
GRADIENT	.00163	.00222	.08107	.00099	-.01661	-.00031	.08164	-.00274	.00112	-.00014	

REPRODUCIBILITY OF TEST
DATA

DATE 13 NOV 75

TABULATED SOURCE DATA - CA23A

PAGE 152

ARC14-080-1 CA23 747/1 01 AT1 (CAR.MATED)

(YE9F65) (12 MAY 75)

REFERENCE DATA

SNEF	-	5500.0000	SQ.FT.	XPRP	-	1339.9000	IN.	XC
LNRF	-	327.7800	IN.	YPRP	-	.0000	IN.	YC
BNRF	-	2348.0400	IN.	ZPRP	-	190.7500	IN.	ZC
SCALE	-	.0125						

PARAMETRIC DATA

BETAC	=	-5.000	STAB-C	=	5.000
RUD-C	=	.000	BETAO	=	-5.000
ELV-O	=	5.000	AIL-O	=	.000
RUD-O	=	.000	IAORG	=	6.000
BETA	=	-5.000			

FN/L = 3.48 GRADIENT INTERVAL = -5.00/ 5.00

[illegible]

DATE 13 NOV 75

TABULATED SOURCE DATA - CA23A

PAGE 153

ARC14-080-1 CA23 747/1 01 AT1 (CAR.MATED)

(YESF88) (12 MAY 75)

REFERENCE DATA

SREF = 9500.0000 SQ.FT. XMRP = 1339.9000 IN. XC
 LREF = 327.7800 IN. YMRP = .0000 IN. YC
 BREF = 2348.5400 IN. ZMRP = 190.7500 IN. ZC
 SCALE = .0125

PARAMETRIC DATA

BETAC = -5.000 STAB-C = 5.000
 RUO-C = .000 BETAO = -5.000
 ELV-O = 5.000 AIL-O = .000
 RUO-O = .000 IAOFB = 4.000
 BETA = -5.000

RN/L = 3.48 GRADIENT INTERVAL = -5.00/ 5.00

MACH = .600	ALPHA-C	CO	CY	CL	CSL	CLM	CLN	CN	CA	CBL	CYN
-3.000	.05590	.08954	-.26149	.03141	-.09272	-.00629	-.26405	.04214	.00107	-.00636	
-2.000	.05085	.09477	-.16771	.00265	-.11849	-.00617	-.16938	.04496	.00243	-.00626	
-1.000	.04840	.09749	-.08868	.00348	-.13609	-.00587	-.04562	.04684	.00338	-.00593	
.000	.04839	.09853	-.01772	.00331	-.14753	-.00570	-.01772	.04839	.00331	-.00570	
1.000	.04887	.10393	.06560	.00441	-.16581	-.00614	.06644	.04772	.00431	-.00606	
2.000	.05019	.10495	.15458	.00705	-.18233	-.00666	.15624	.04777	.00728	-.00641	
3.000	.05345	.10726	.23687	.00814	-.19510	-.00707	.23933	.04078	.00850	-.00663	
4.000	.05650	.11191	.31470	.00911	-.21351	-.00743	.31787	.03441	.00961	-.00678	
5.000	.06178	.11356	.39555	.01020	-.23013	-.00802	.39953	.02706	.01086	-.00710	
6.000	.07074	.11494	.47534	.01009	-.23921	-.00834	.47013	.02066	.01090	-.00724	
GRADIENT	.00087	.00292	.08165	.00113	-.01646	-.00923	.08246	-.00190	.00125	-.00011	

DATE 13 NOV 73

TABULATED SOURCE DATA - CA23A

ARC14-080-1 CA23 747/1 01 AT1 (CAR.MATED)

(YESF67) (12 MAY 75)
PAGE 154

REFERENCE DATA

SREF	=	450.0000	SQ.FT.	XPRP	=	1339.9000	IN.	YC
LREF	=	27.7800	IN.	YPRP	=	.0000	IN.	ZC
BREF	=	23.1040	IN.	ZPRP	=	190.7500	IN.	
SCALE	=	.0125						

PARAMETRIC DATA

BETAC	=	-5.000	STAB-C	=	5.000
RUC-C	=	.000	BETAO	=	-5.000
ELV-O	=	5.000	AIL-O	=	.000
RUC-O	=	.000	IAOR8	=	0.000
BETA	=	-5.000			

SN(1) = 3 +8 GRADIENT INTERVAL = -5.00/ 5.00

MACH	•	.600	ALPHAC	CU	CY	CL	CSL	CLM	CLN	CN	CA	CRL	CYN
1.000	0.00004	0.00253	0.07937	0.0082	0.0153	0.05391	0.00721	0.07741	0.0641	0.08711	0.0742	0.0680	0.00587
2.000	0.00004	0.00822	0.06362	0.00721	0.05391	0.05391	0.00721	0.07741	0.0641	0.08711	0.0742	0.0680	0.00587
3.000	0.00004	0.016291	0.04221	0.00811	0.05391	0.05391	0.00721	0.07741	0.0641	0.08711	0.0742	0.0680	0.00587
4.000	0.00004	0.04886	0.0270	0.00875	0.05391	0.05391	0.00721	0.07741	0.0641	0.08711	0.0742	0.0680	0.00587
5.000	0.00004	0.11969	0.01647	0.00954	0.05391	0.05391	0.00721	0.07741	0.0641	0.08711	0.0742	0.0680	0.00587
6.000	0.00004	0.05972	0.00899	0.01051	0.05391	0.05391	0.00721	0.07741	0.0641	0.08711	0.0742	0.0680	0.00587
GRADIENT	0.00004	0.00253	0.07937	0.0082	0.0153	0.05391	0.00721	0.07741	0.0641	0.08711	0.0742	0.0680	0.00587